

Program Complot
(Version 2021-1)

by

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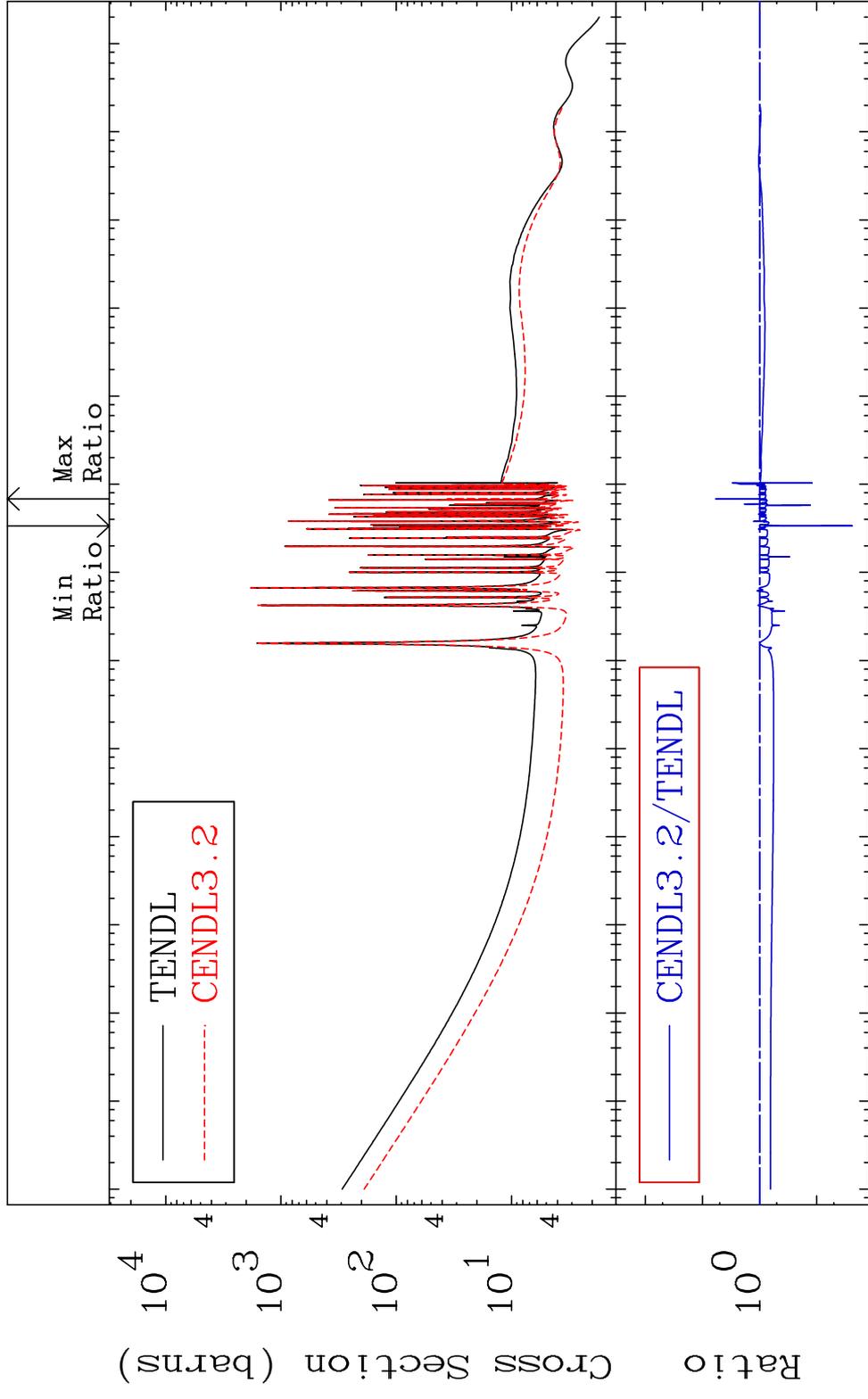
Press Mouse Button to Start

MAT 4440

Total

44-Ru-101

Cross Section -97.64 To 482.5 %



10⁴ 10³ 10² 10¹ 10⁰ 10⁻¹ 10⁻² 10⁻³ 10⁻⁴ 10⁻⁵ 10⁸ 10⁷ 10⁶ 10⁵ 10⁴ 10³ 10² 10¹ 10⁰ 10⁻¹ 10⁻² 10⁻³ 10⁻⁴ 10⁻⁵

1

Incident Energy (eV)

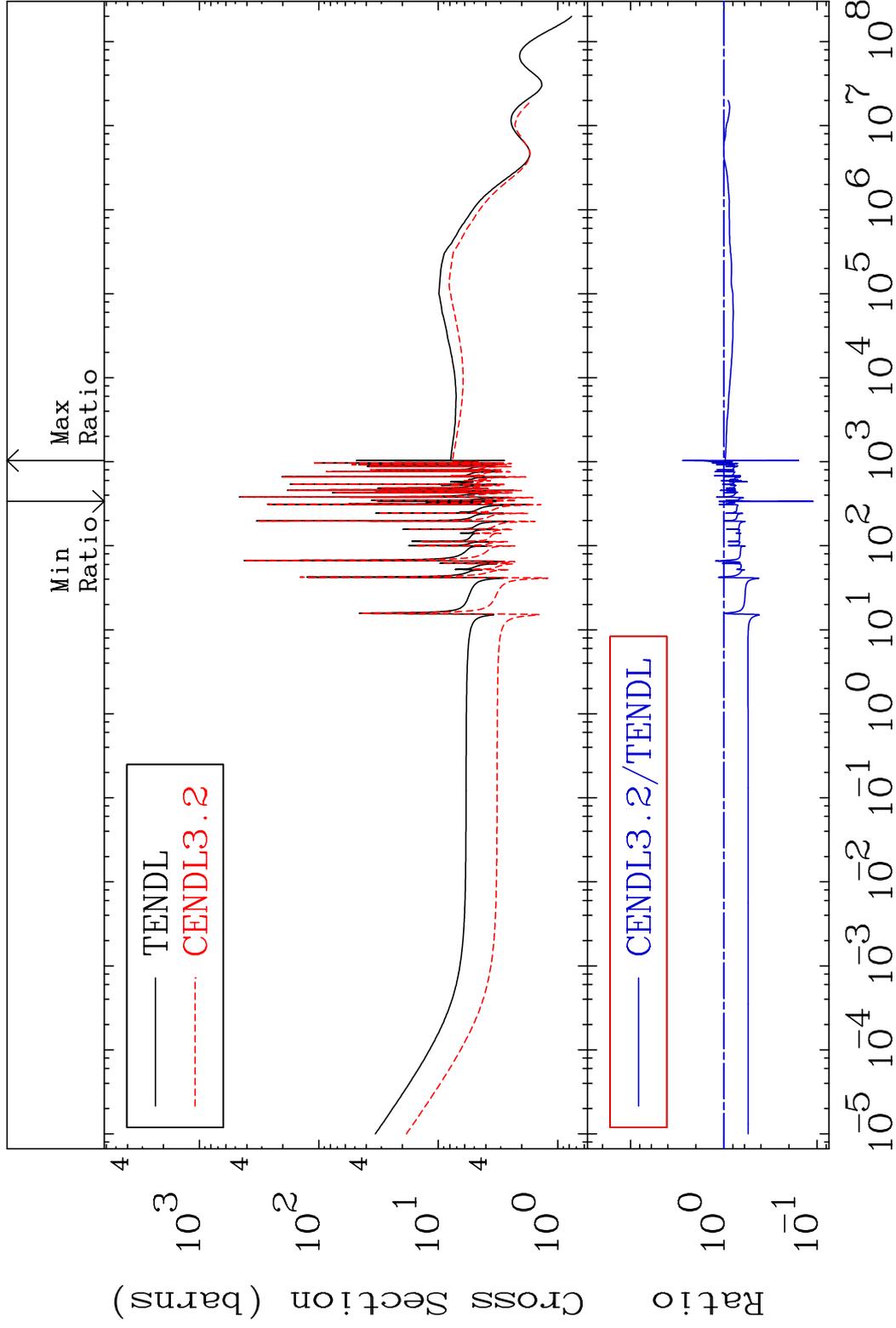
44-Ru-101

MAT 4440

Elastic

44-Ru-101

Cross Section -88.98 To 175.7 %

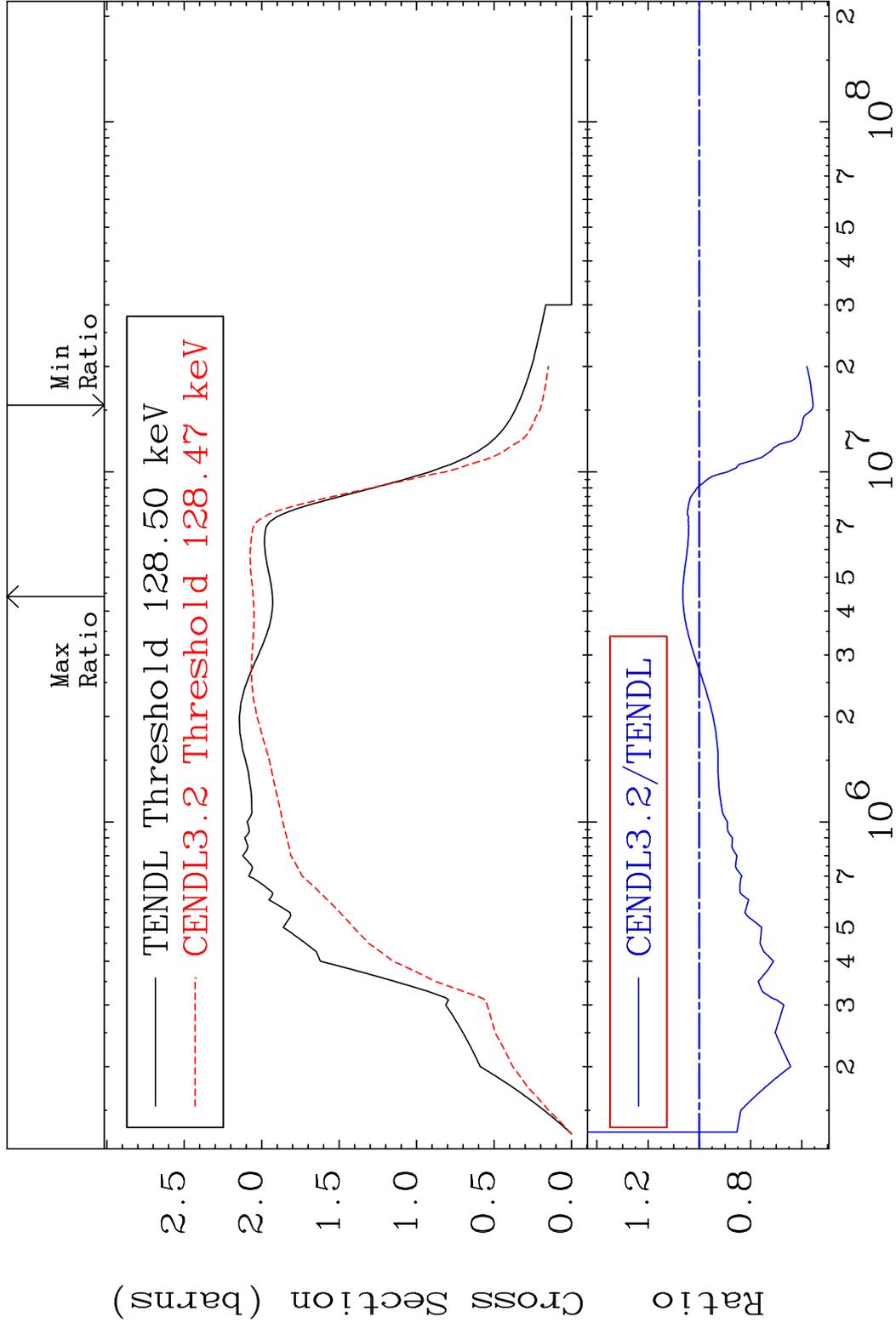


2

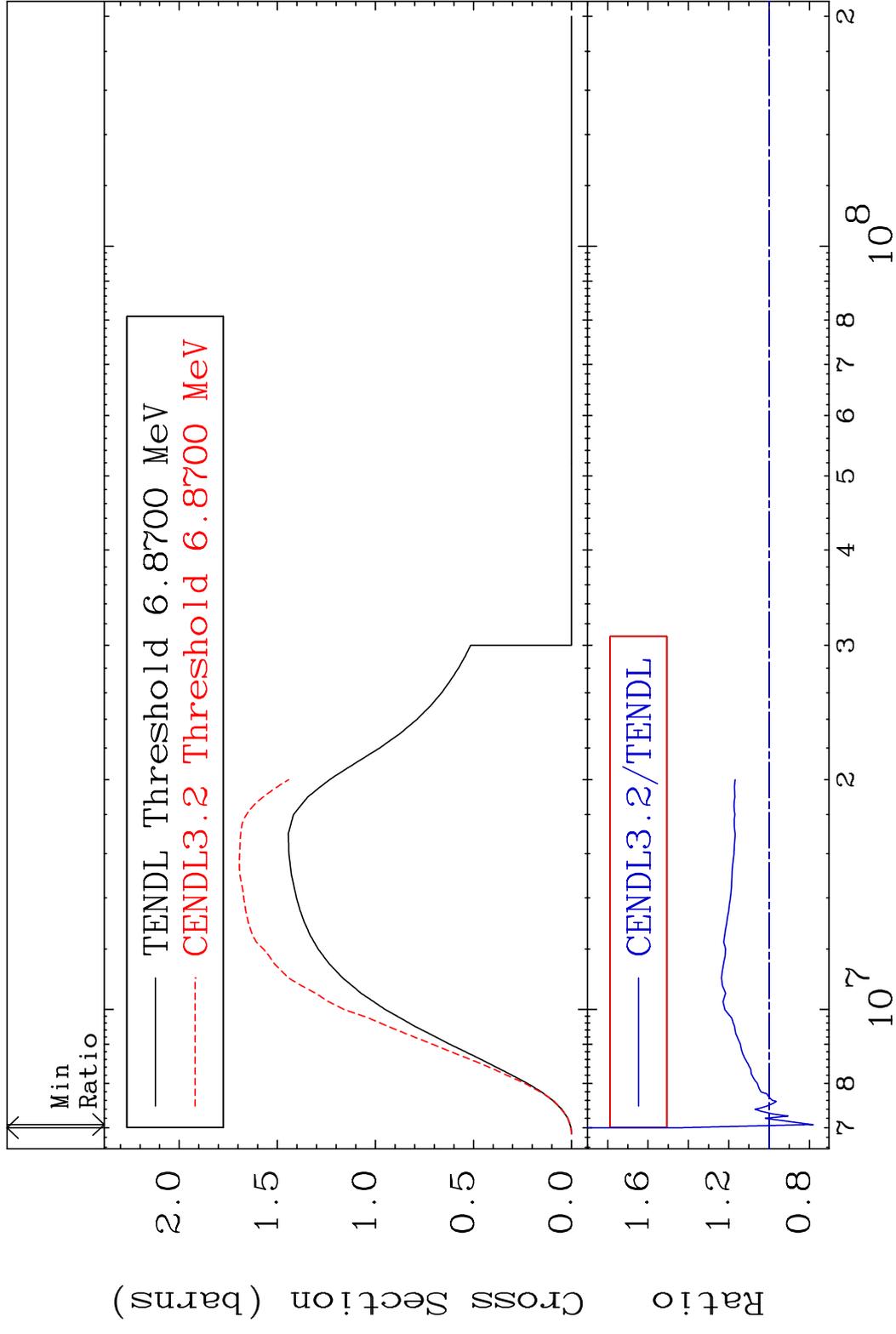
Incident Energy (eV)

44-Ru-101

MAT 4440 Inelastic 44-Ru-101
 Cross Section -44.41 To 6.463 %

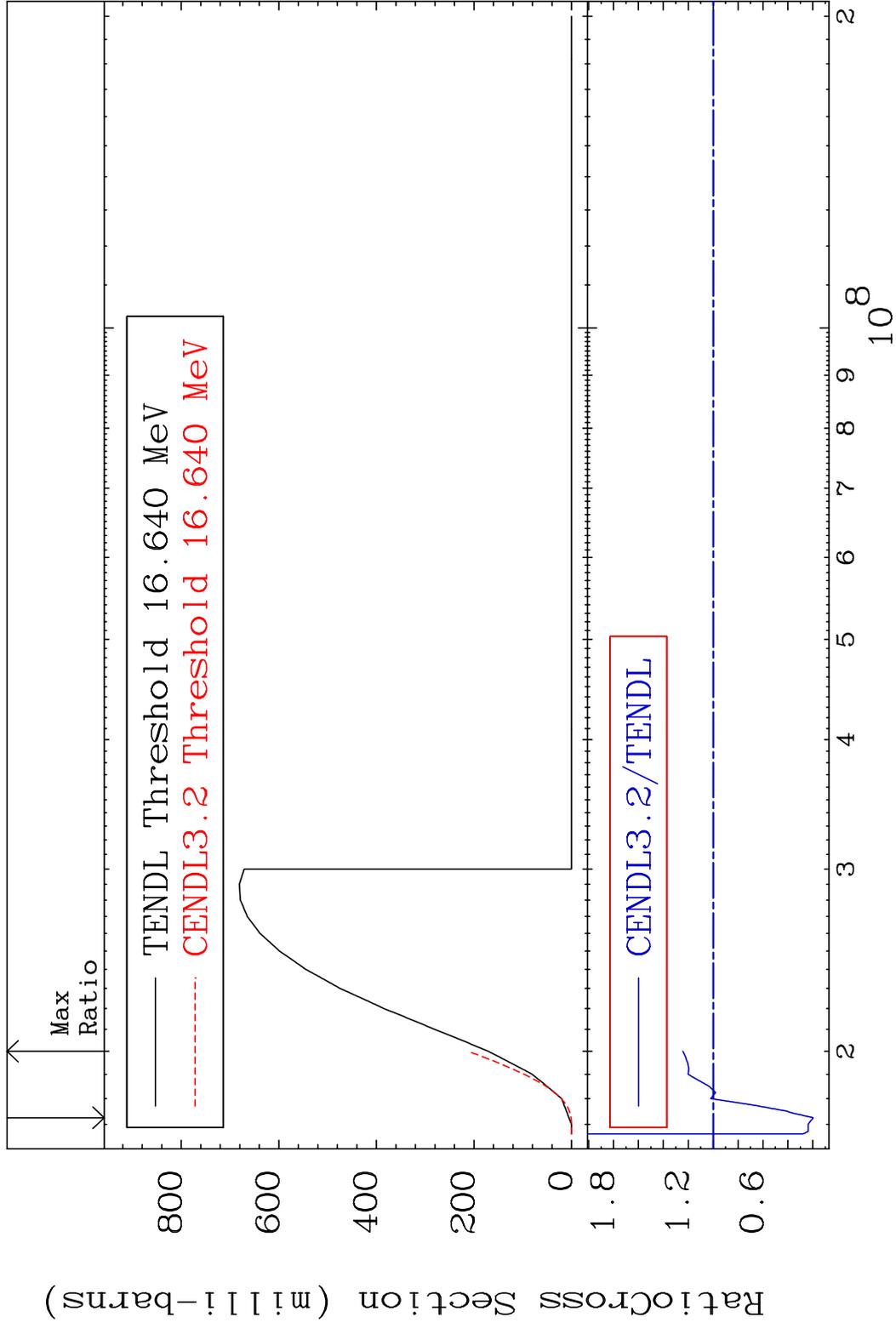


MAT 4440 (n,2n) 44-Ru-101
 Cross Section -21.82 To 42.76 %

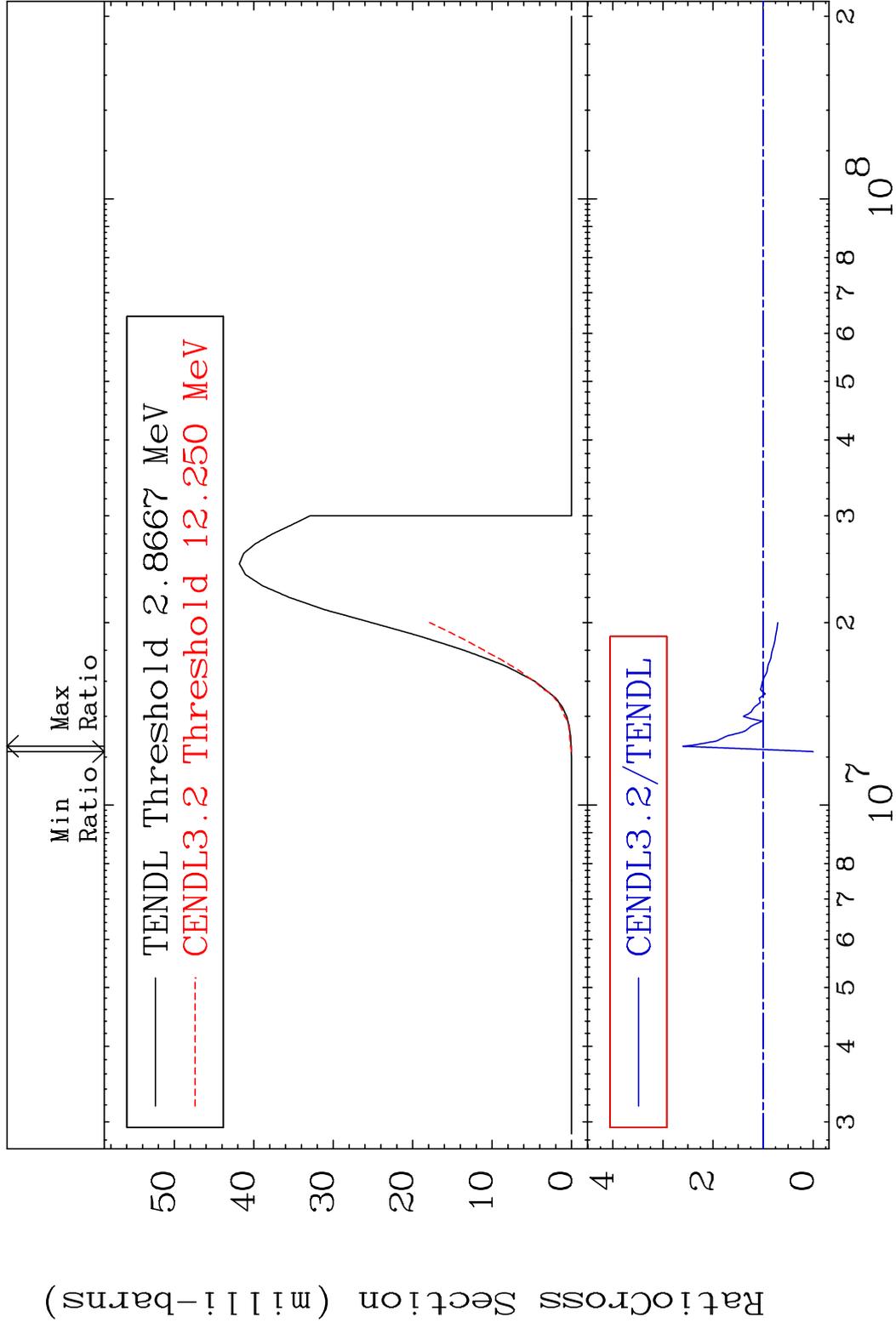


4 Incident Energy (eV) 44-Ru-101

MAT 4440 (n,3n) 44-Ru-101
 Cross Section -80.31 To 24.35 %



MAT 4440 (n, n') α 44-Ru-101
 Cross Section -100.0 To 160.3 %

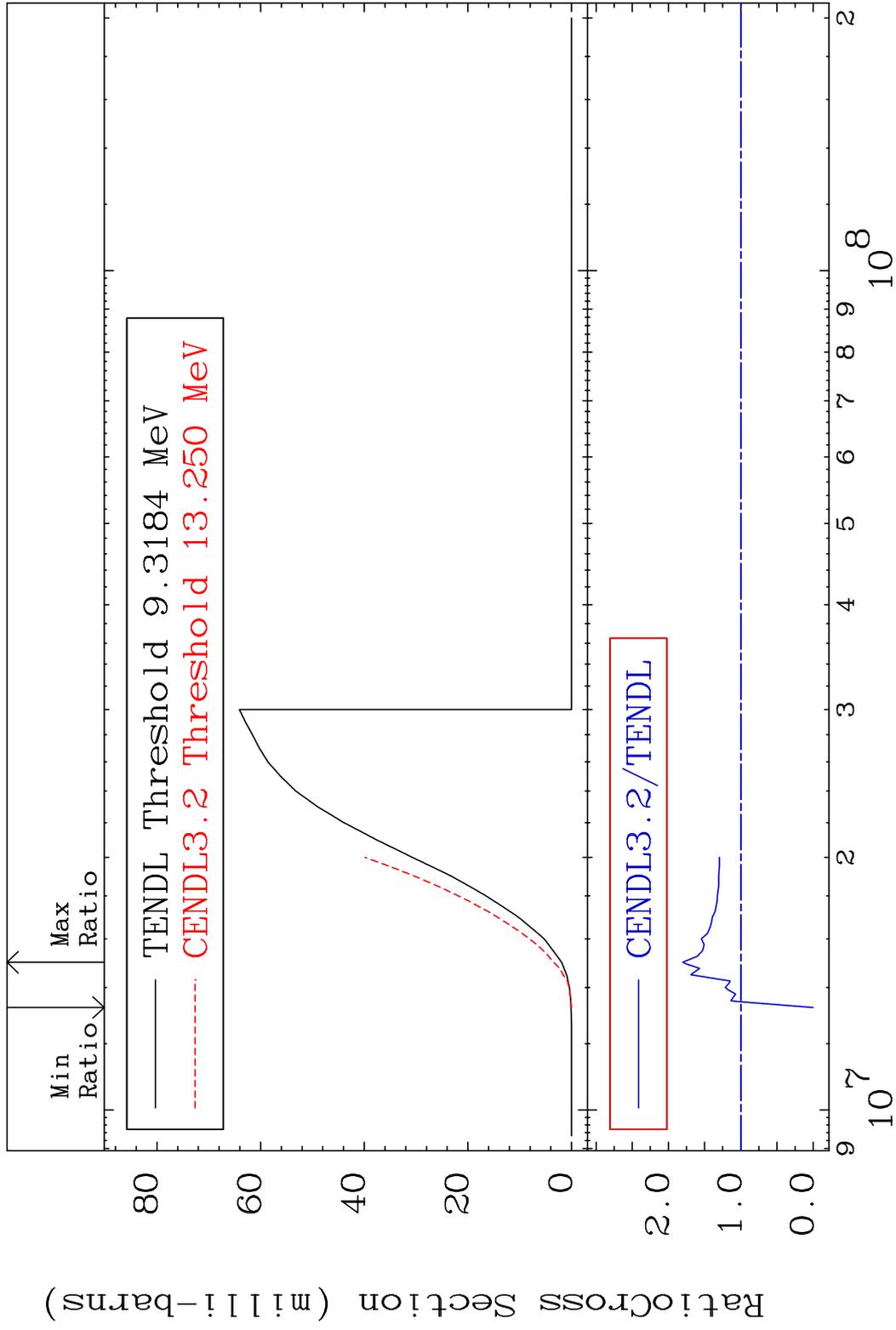


MAT 4440

(n, n') p

44-Ru-101

Cross Section -100.0 To 80.07 %

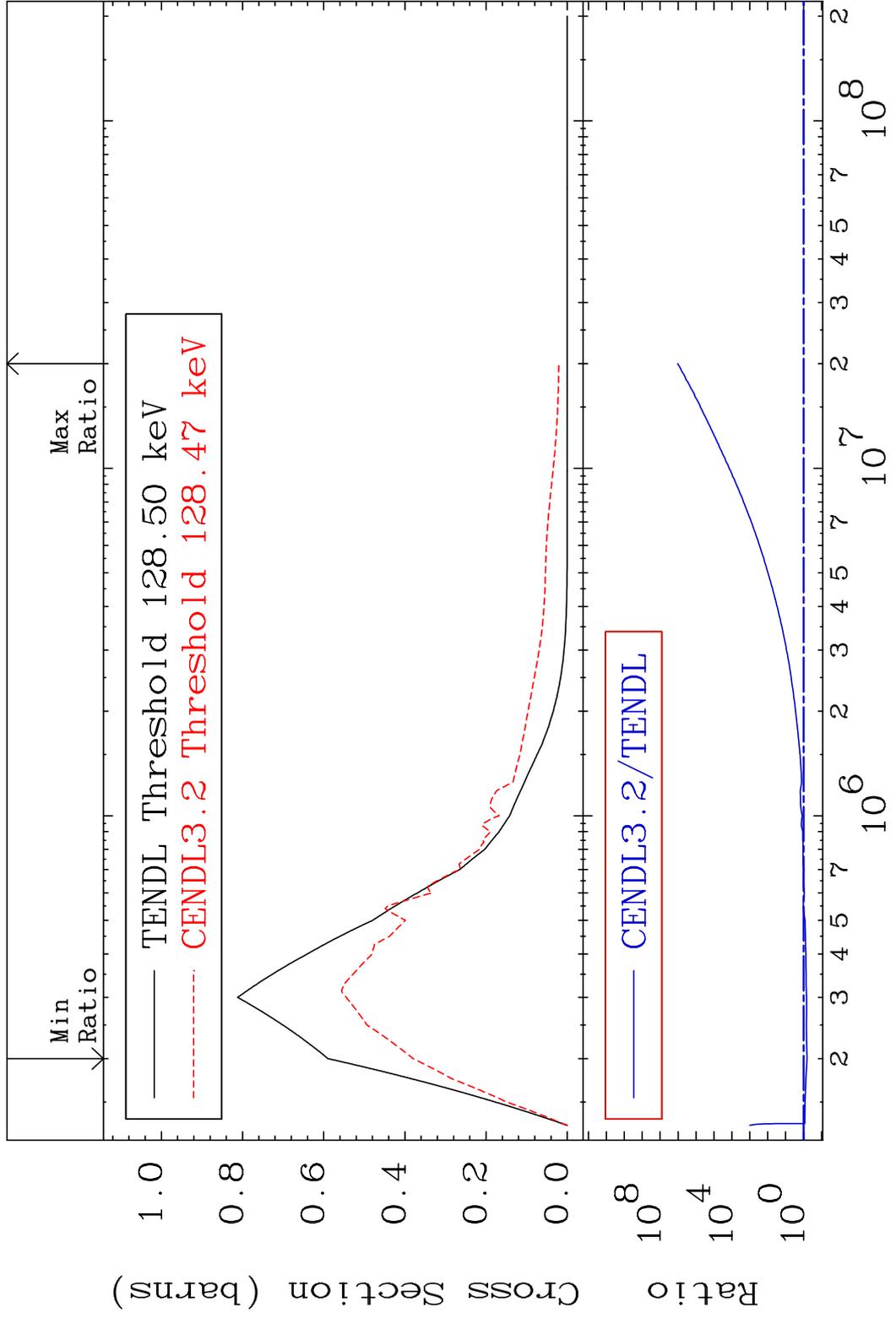


7

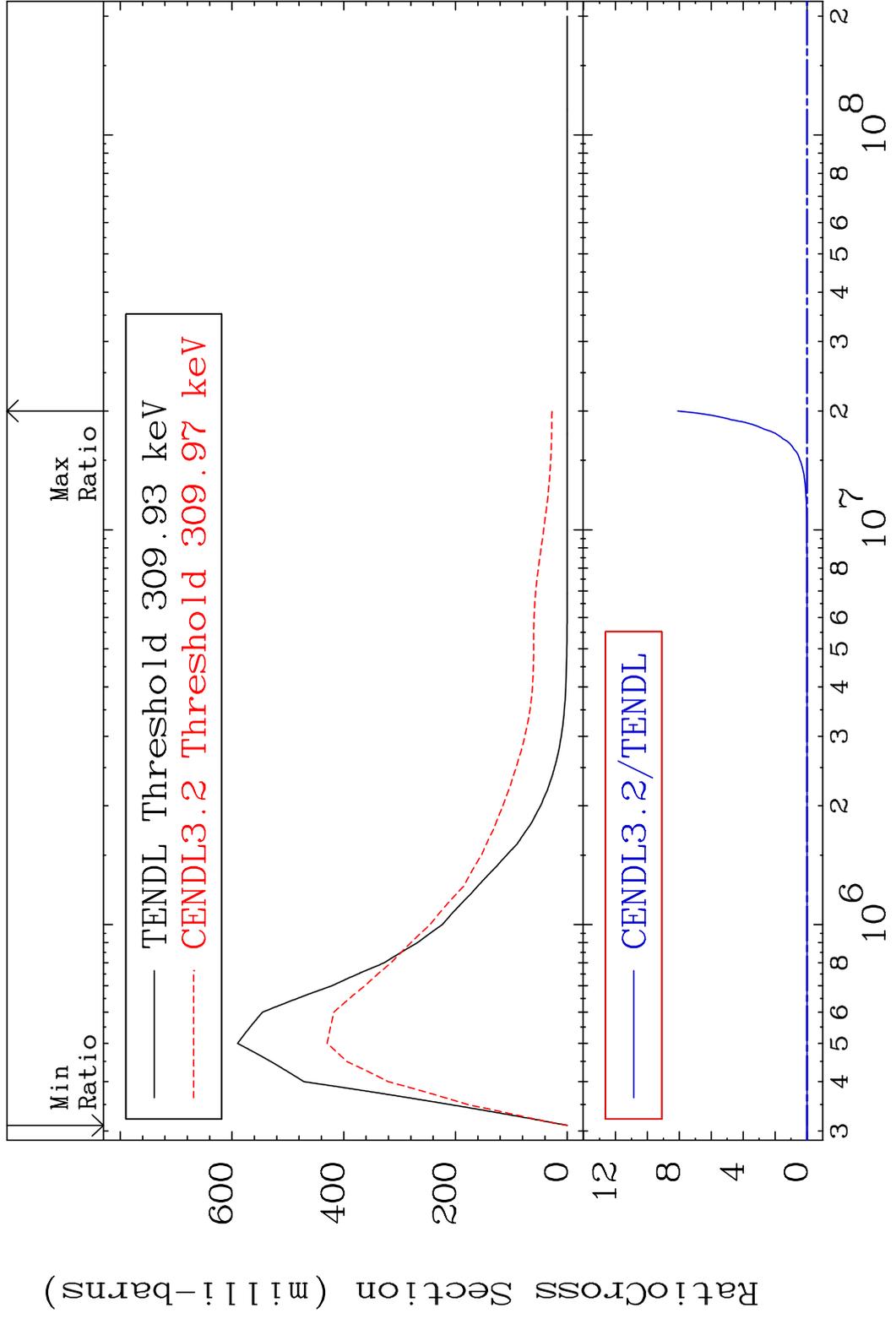
Incident Energy (eV)

44-Ru-101

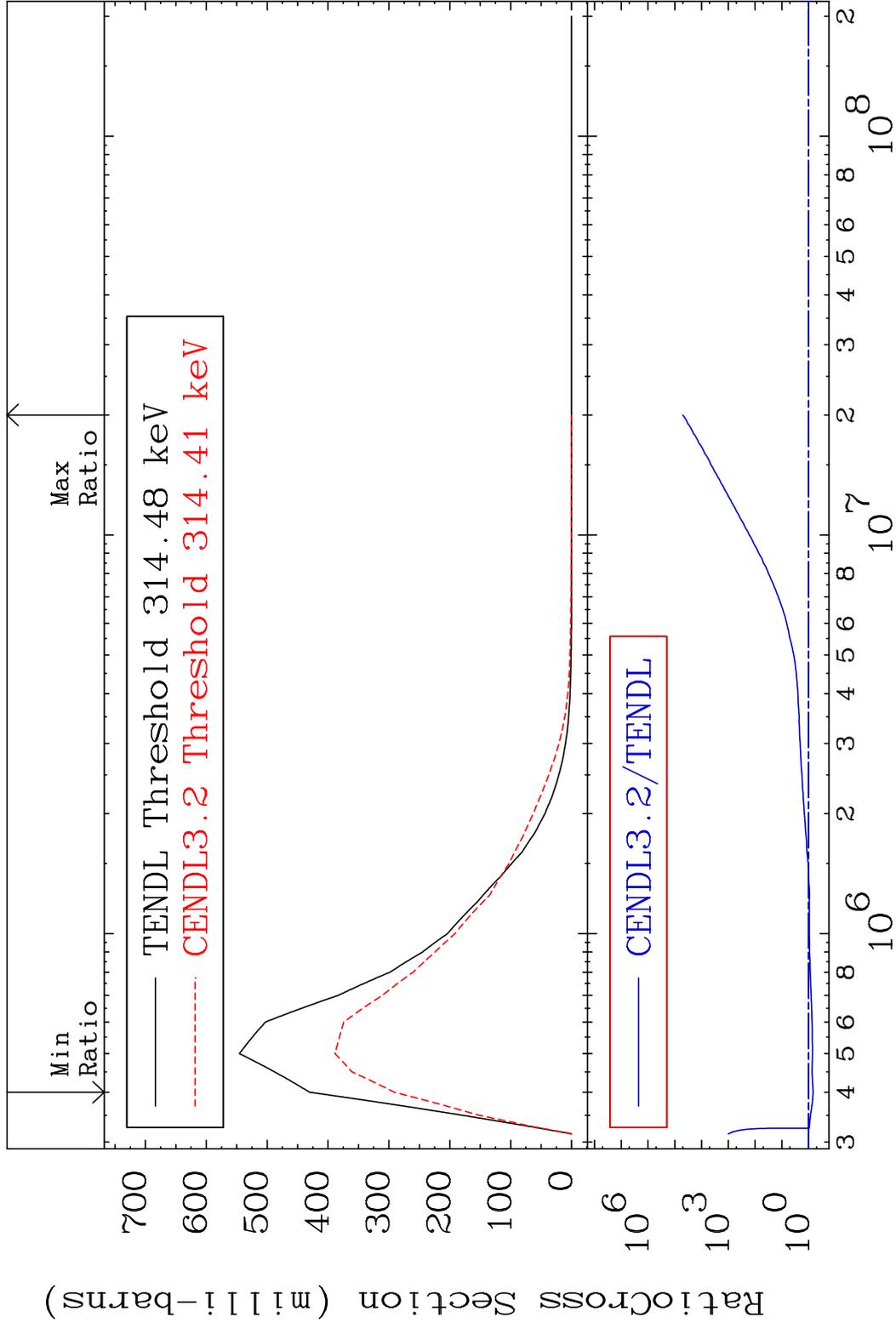
MAT 4440 MT= 51 (n,n') Level 44-Ru-101
 Cross Section -35.60 To 9999. %



MAT 4440 MT= 52 (n,n') Level 44-Ru-101
 Cross Section -100.0 To 9999. %

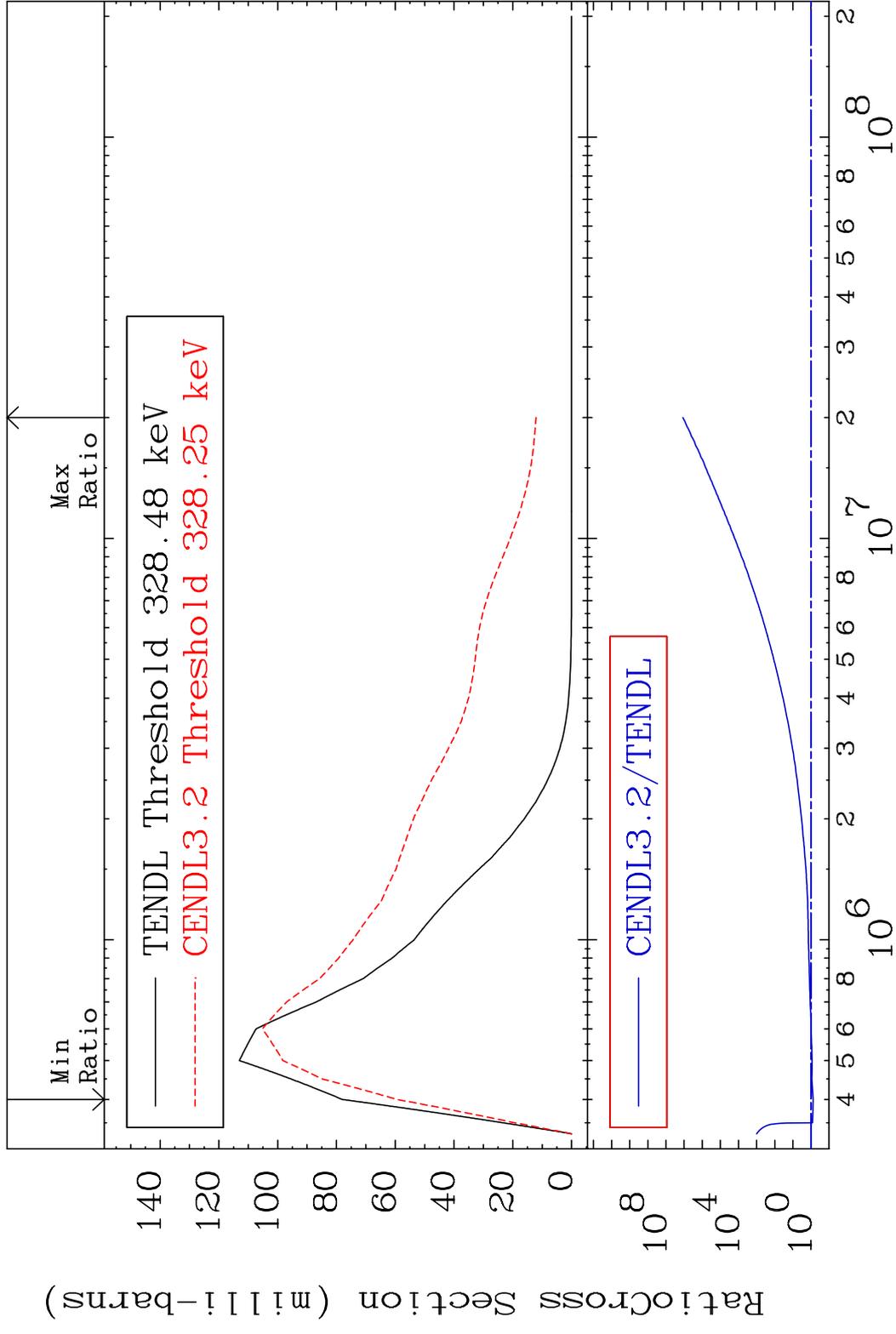


MAT 4440 MT= 53 (n, n') Level 44-Ru-101
 Cross Section -32.33 To 9999. %

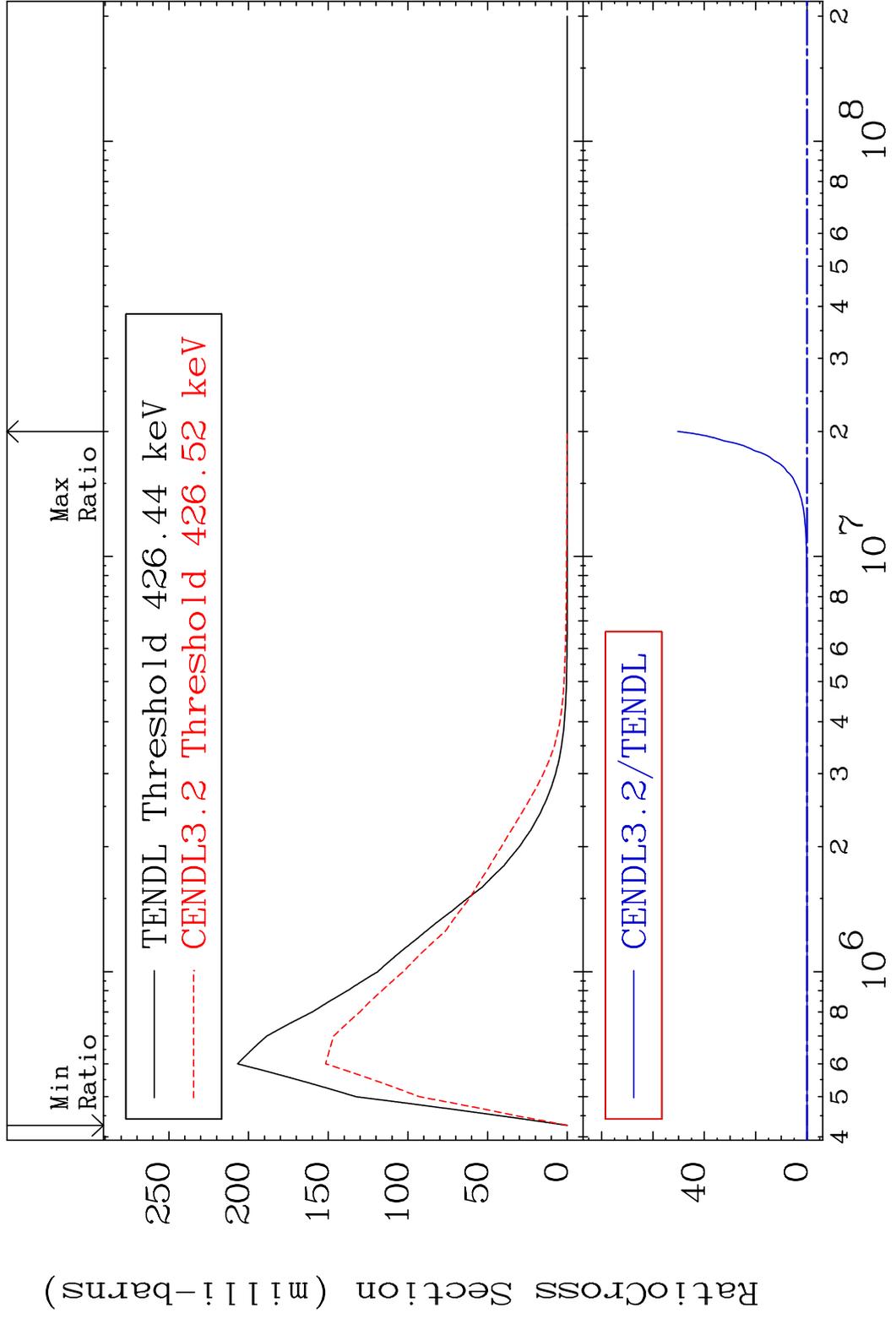


10 Incident Energy (eV) 44-Ru-101

MAT 4440 MT= 54 (n, n') Level 44-Ru-101
 Cross Section -23.87 To 9999. %

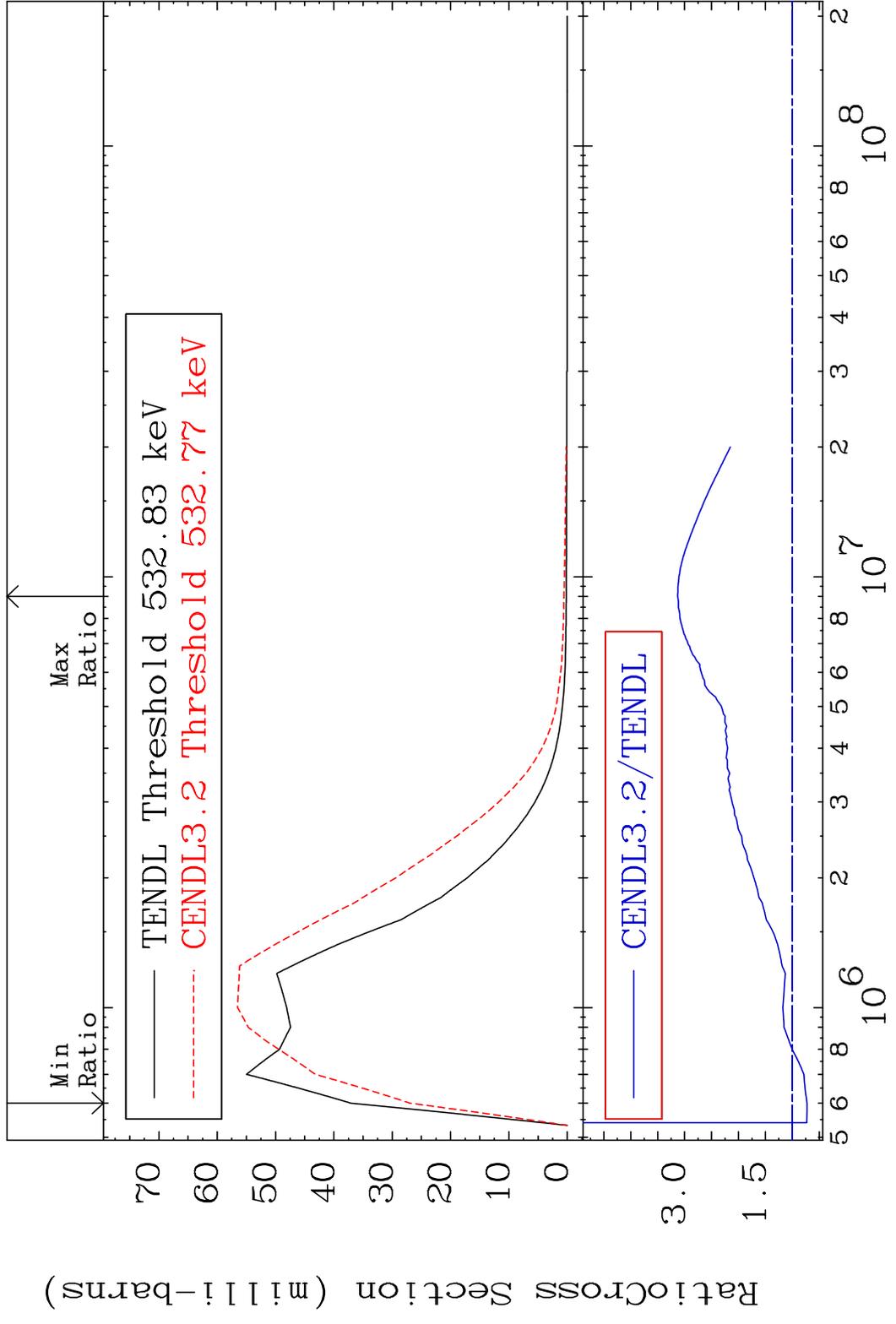


MAT 4440 MT= 55 (n,n') Level 44-Ru-101
 Cross Section -100.0 To 9999. %

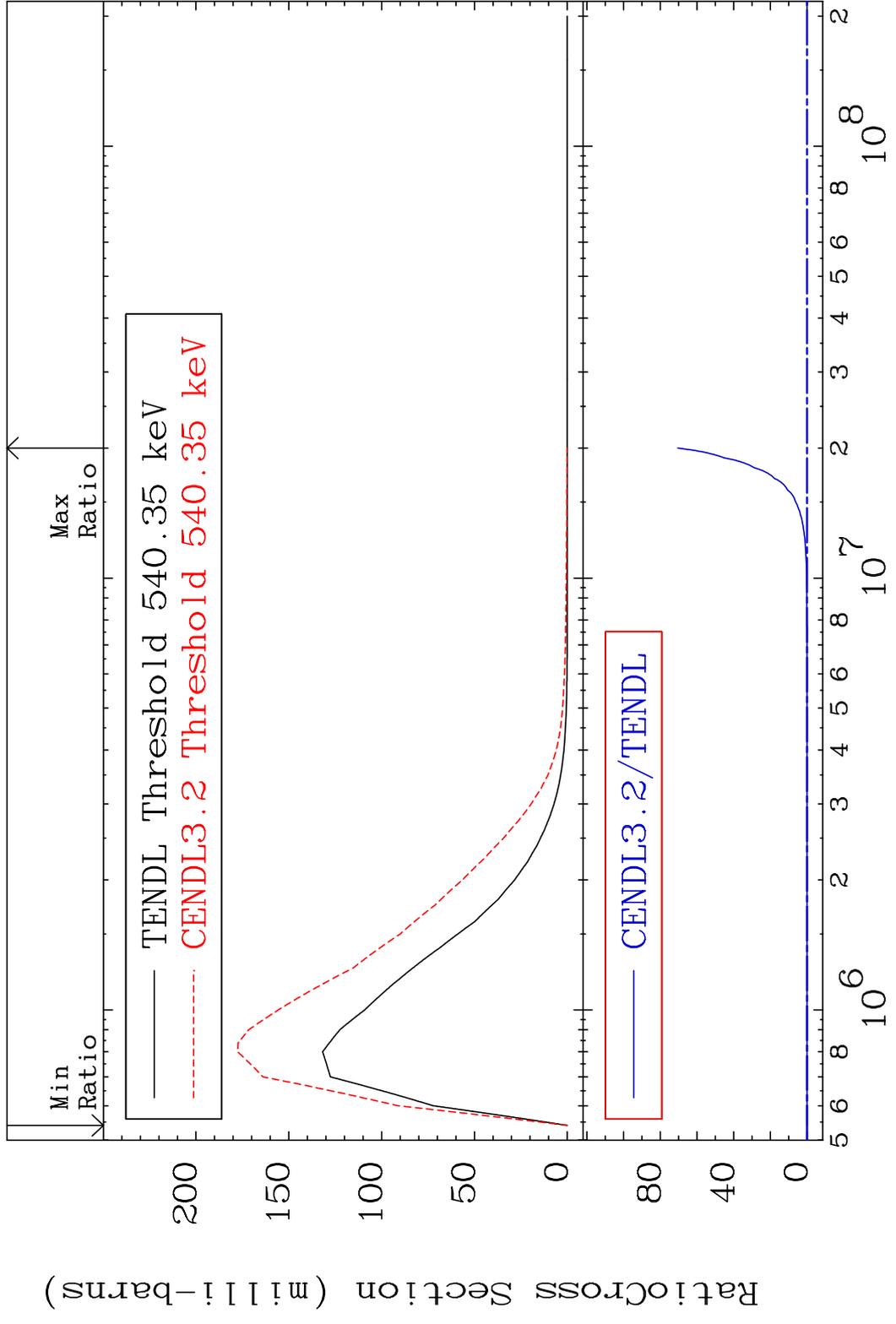


12 Incident Energy (eV) 44-Ru-101

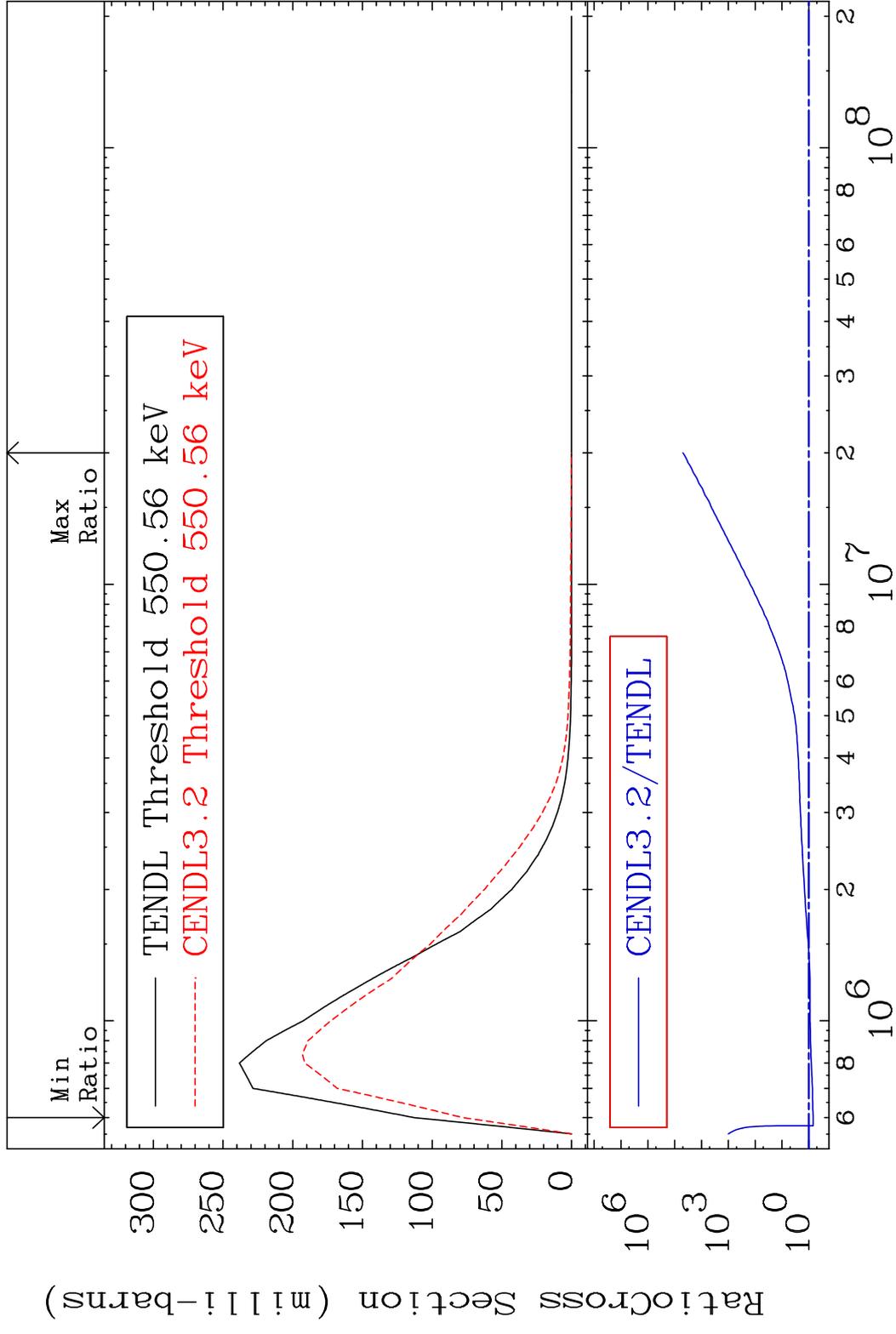
MAT 4440 MT= 56 (n, n') Level 44-Ru-101
 Cross Section -27.35 To 212.9 %



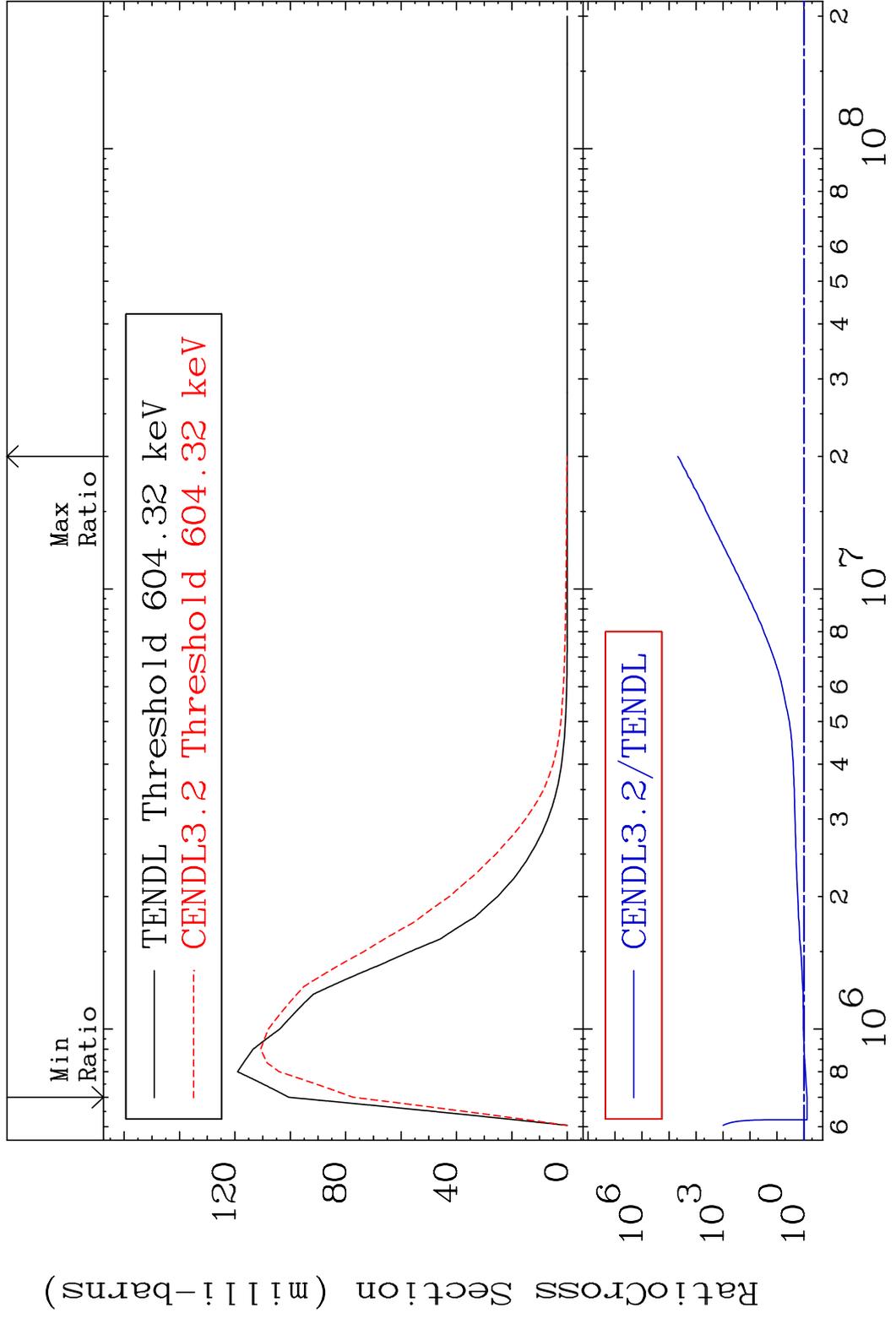
MAT 4440 MT= 57 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 9999. %



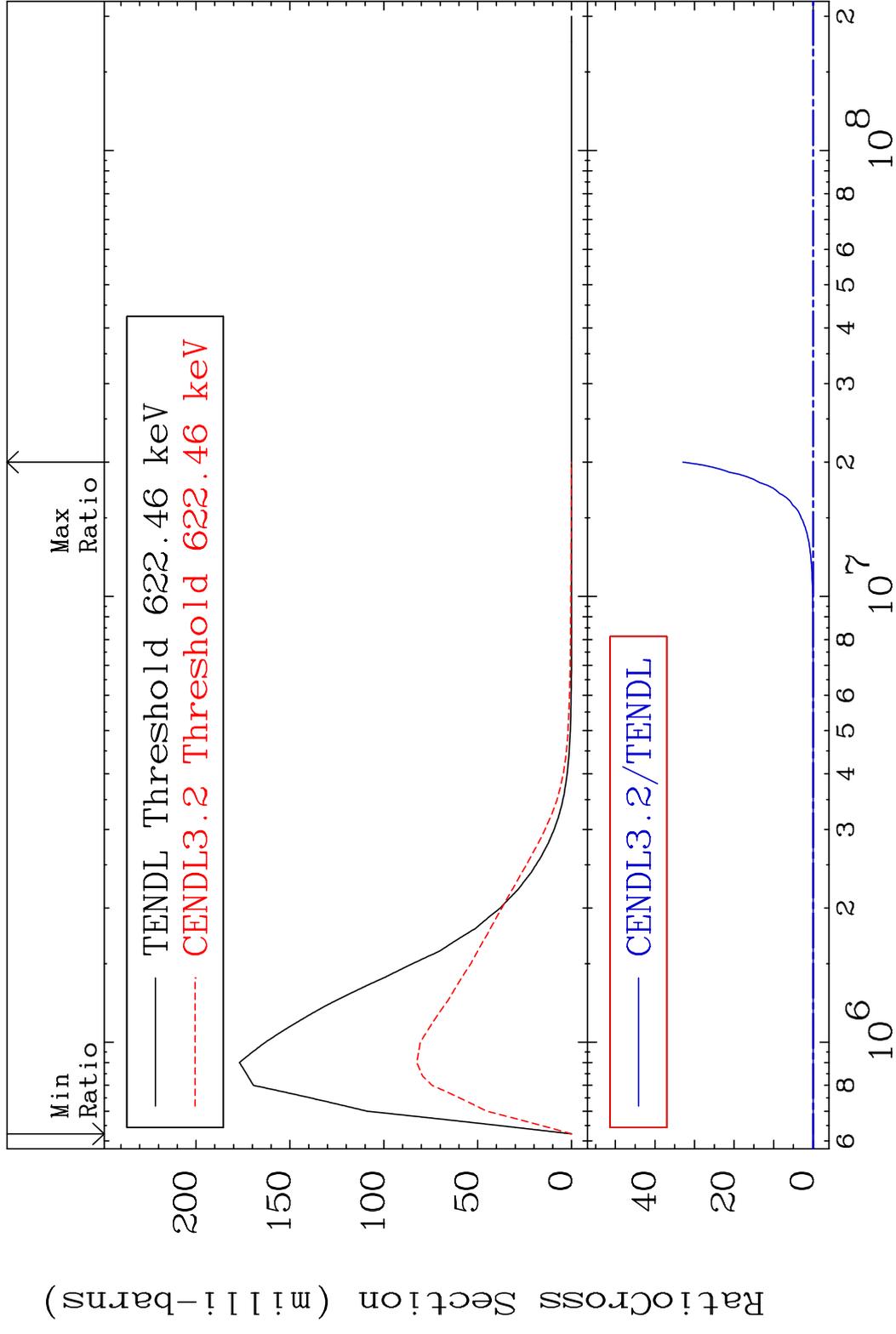
MAT 4440 MT= 58 (n, n') Level 44-Ru-101
 Cross Section -30.84 To 9999. %



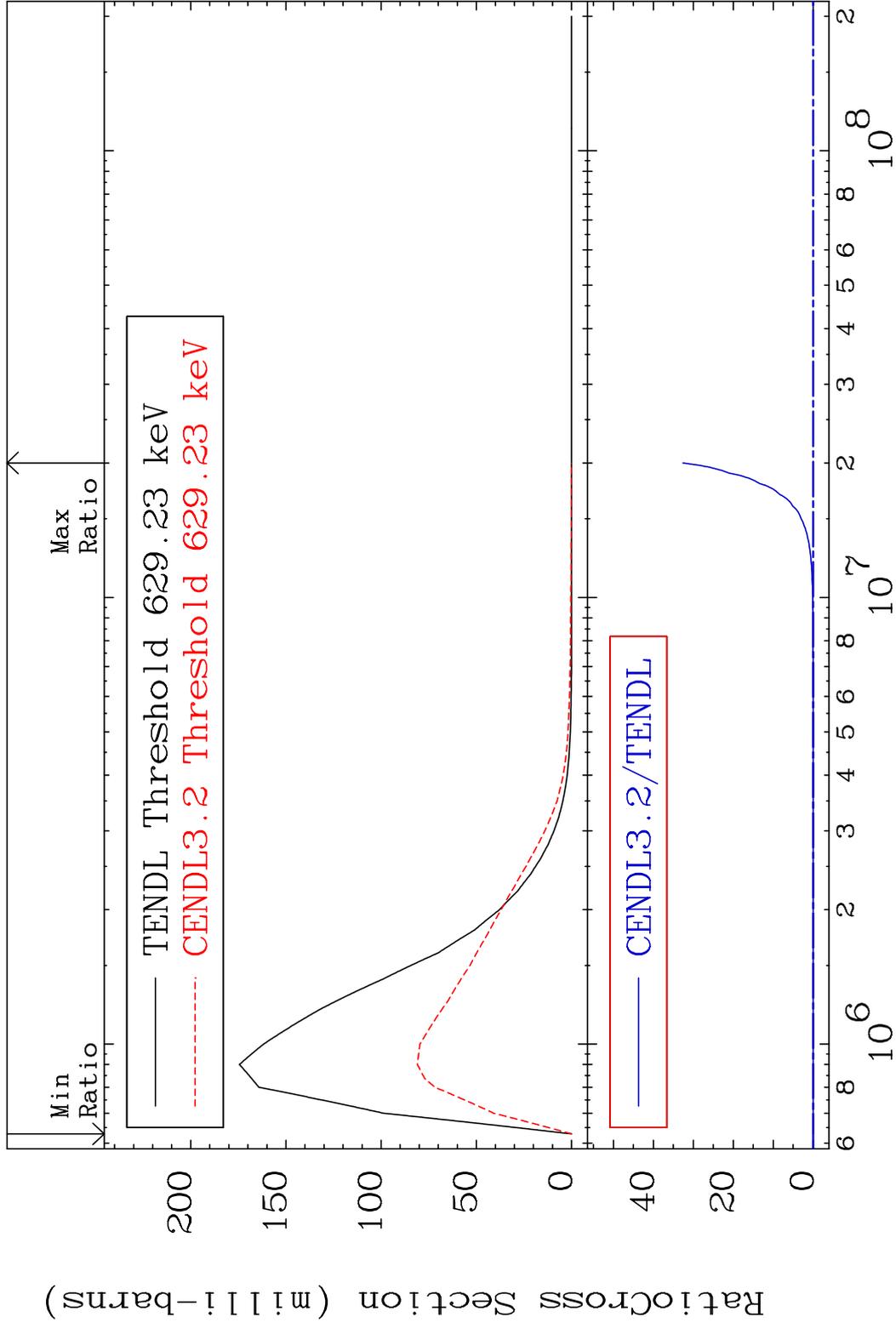
MAT 4440 MT= 59 (n, n') Level 44-Ru-101
 Cross Section -23.11 To 9999. %



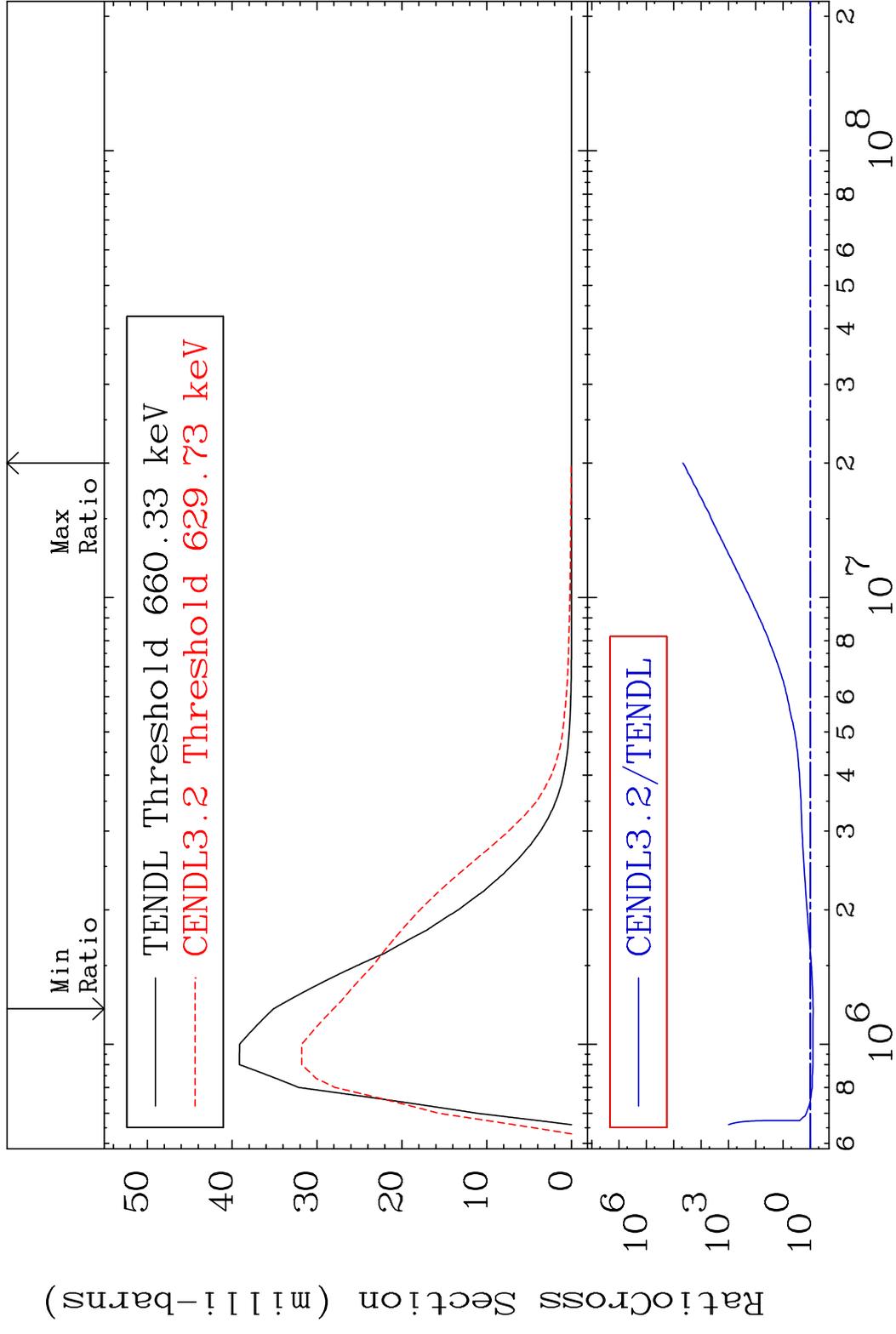
MAT 4440 MT= 60 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 9999. %



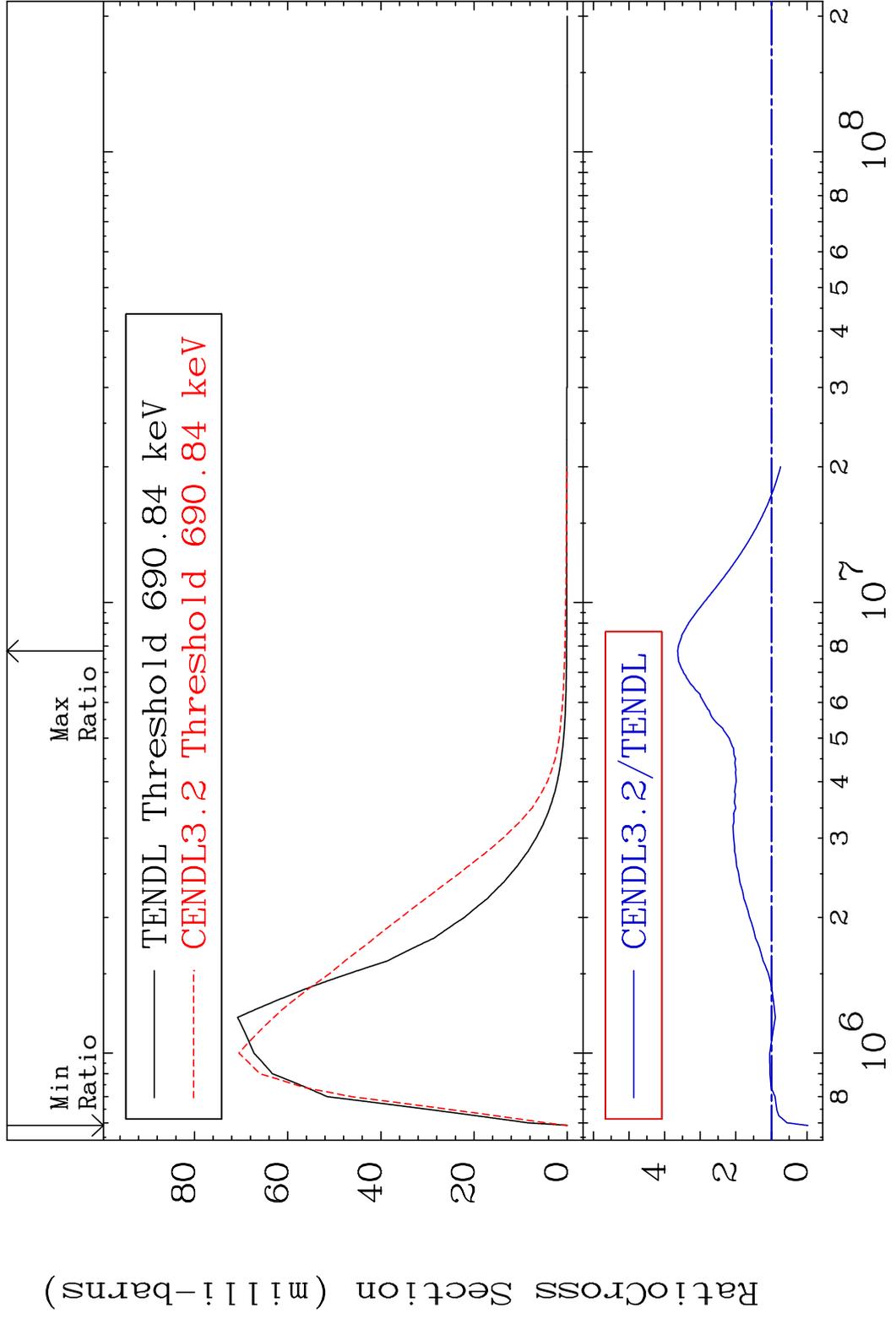
MAT 4440 MT= 61 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 9999. %



MAT 4440 MT= 62 (n, n') Level 44-Ru-101
 Cross Section -20.10 To 9999. %

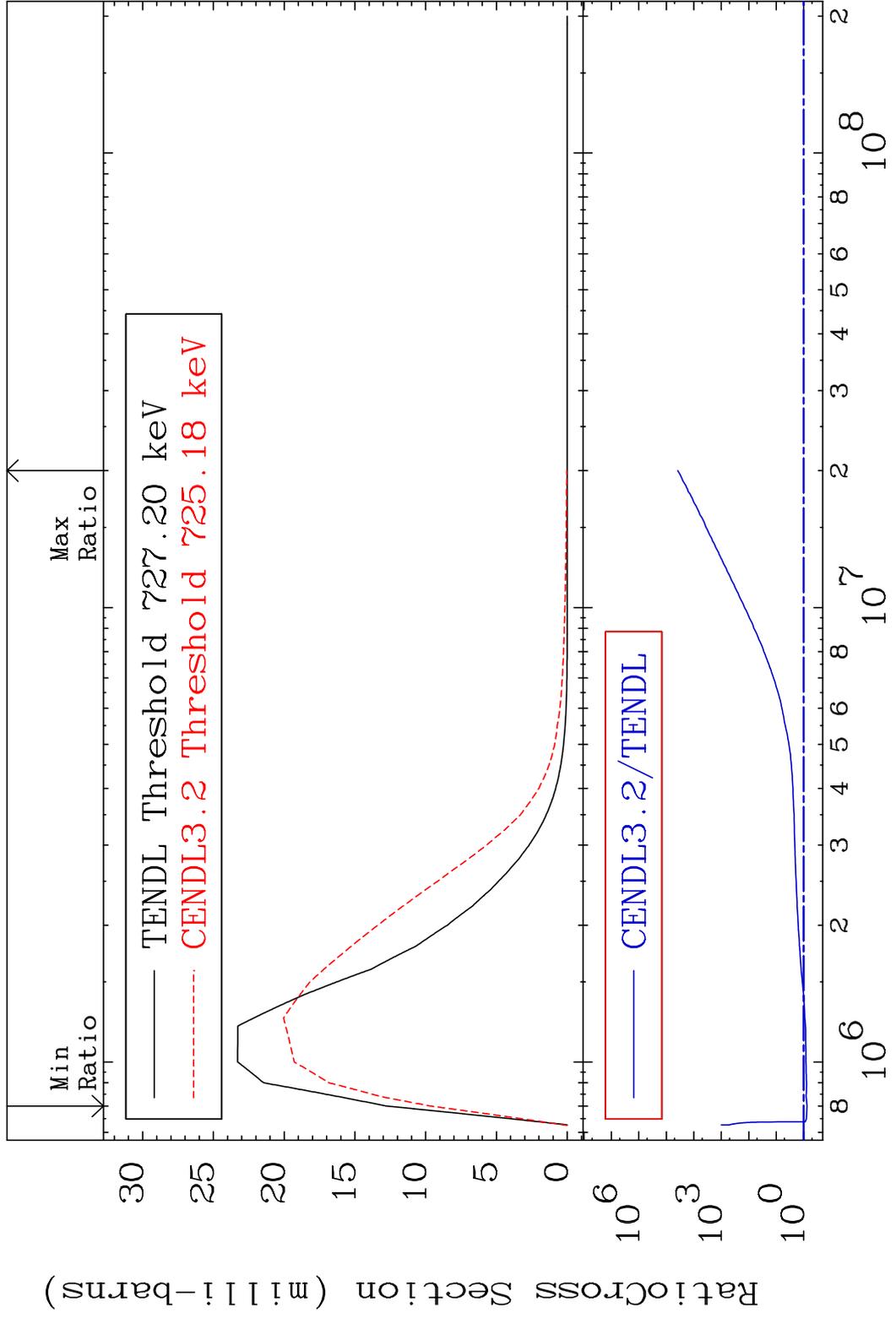


MAT 4440 MT= 63 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 263.3 %

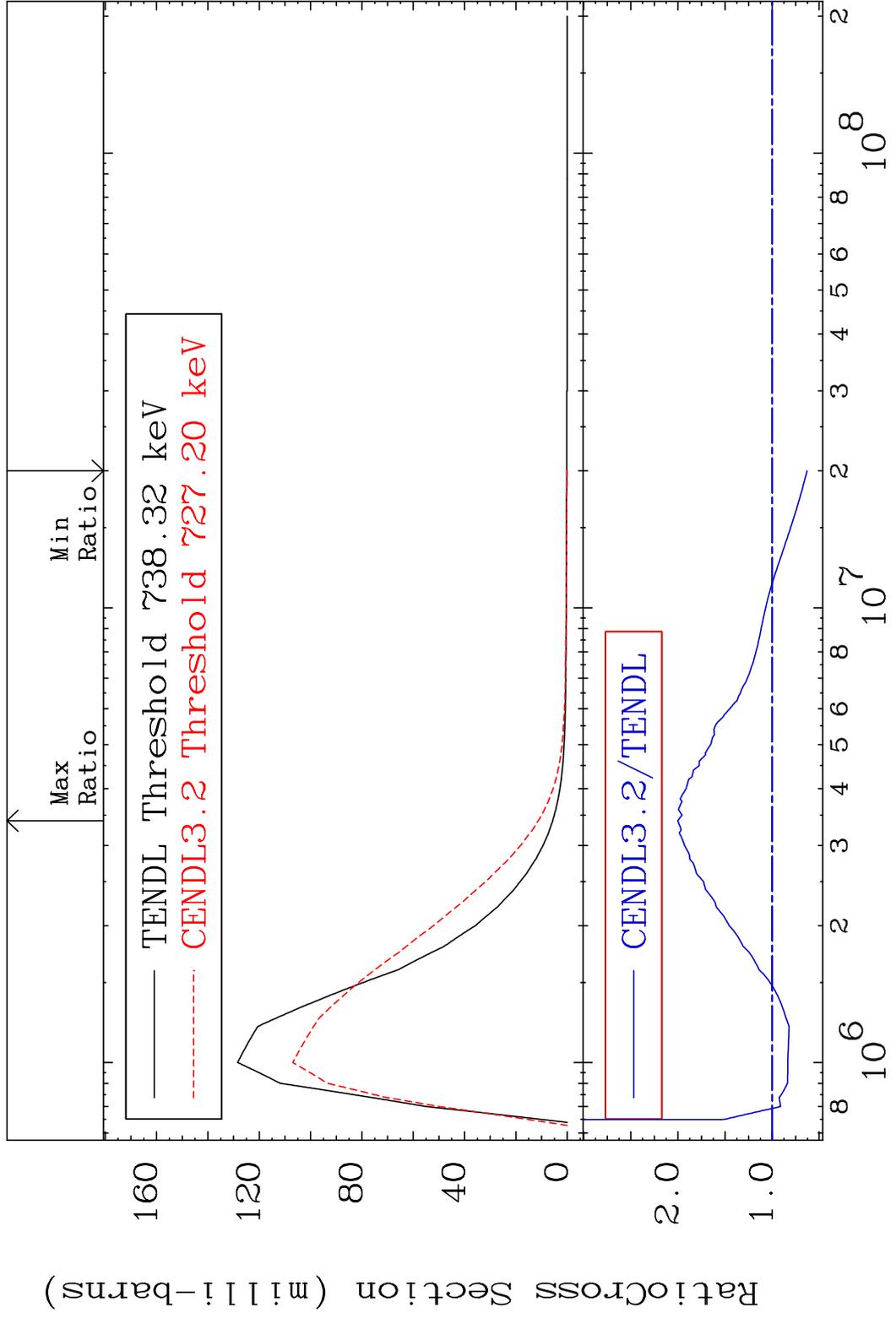


20 Incident Energy (eV) 44-Ru-101

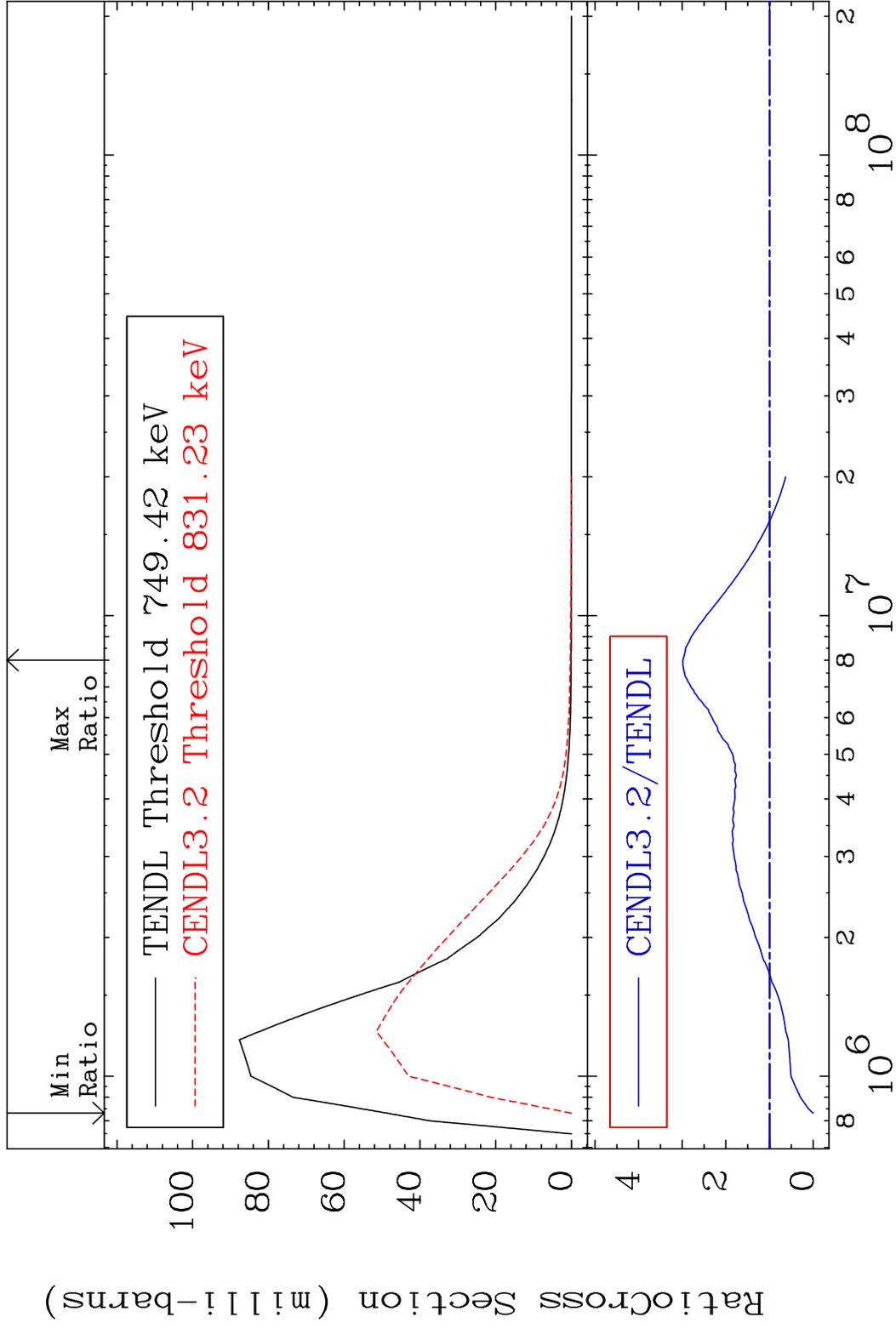
MAT 4440 MT= 64 (n, n') Level 44-Ru-101
 Cross Section -24.24 To 9999. %



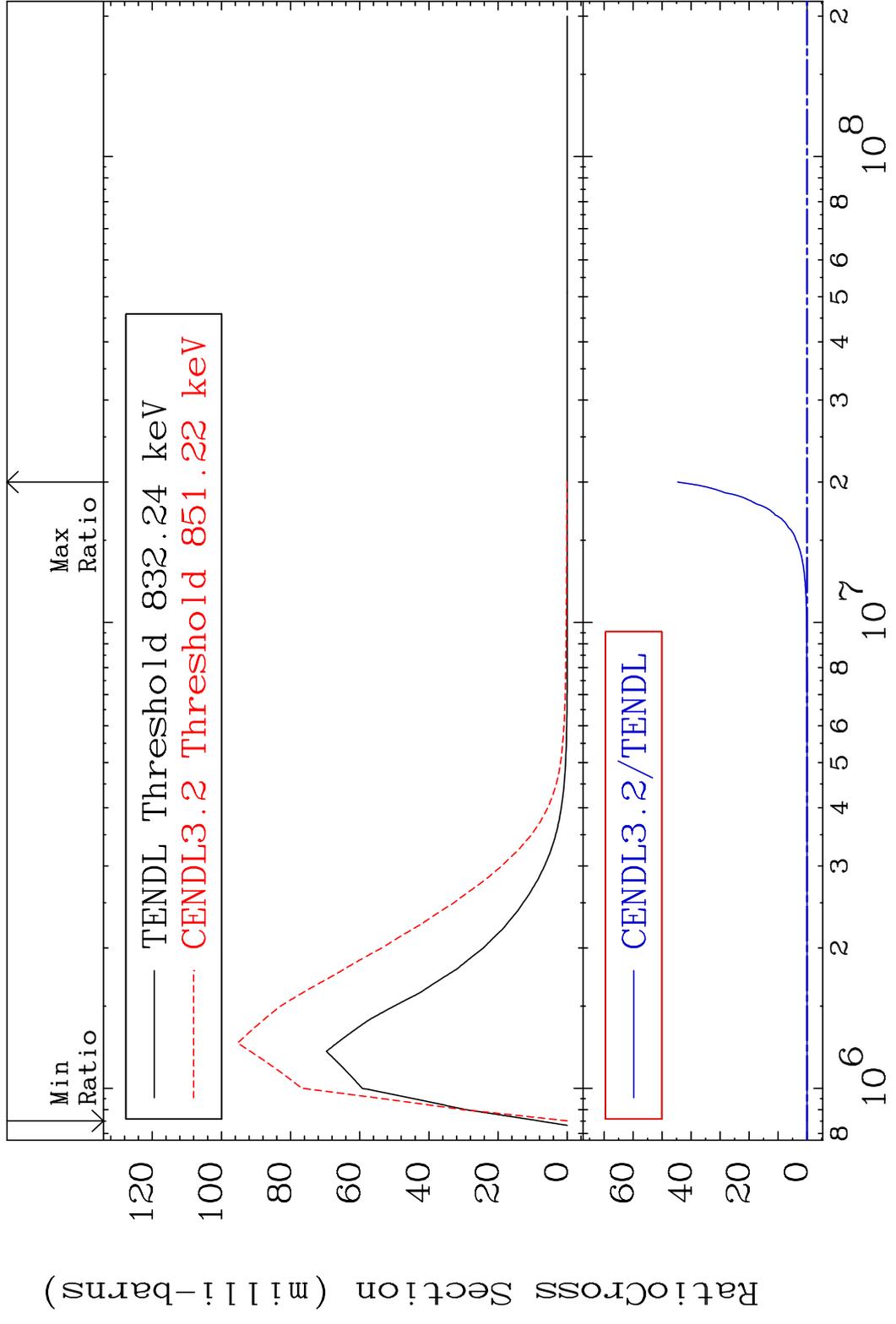
MAT 4440 MT= 65 (n, n') Level 44-Ru-101
 Cross Section -37.09 To 100.2 %



MAT 4440 MT= 66 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 198.7 %

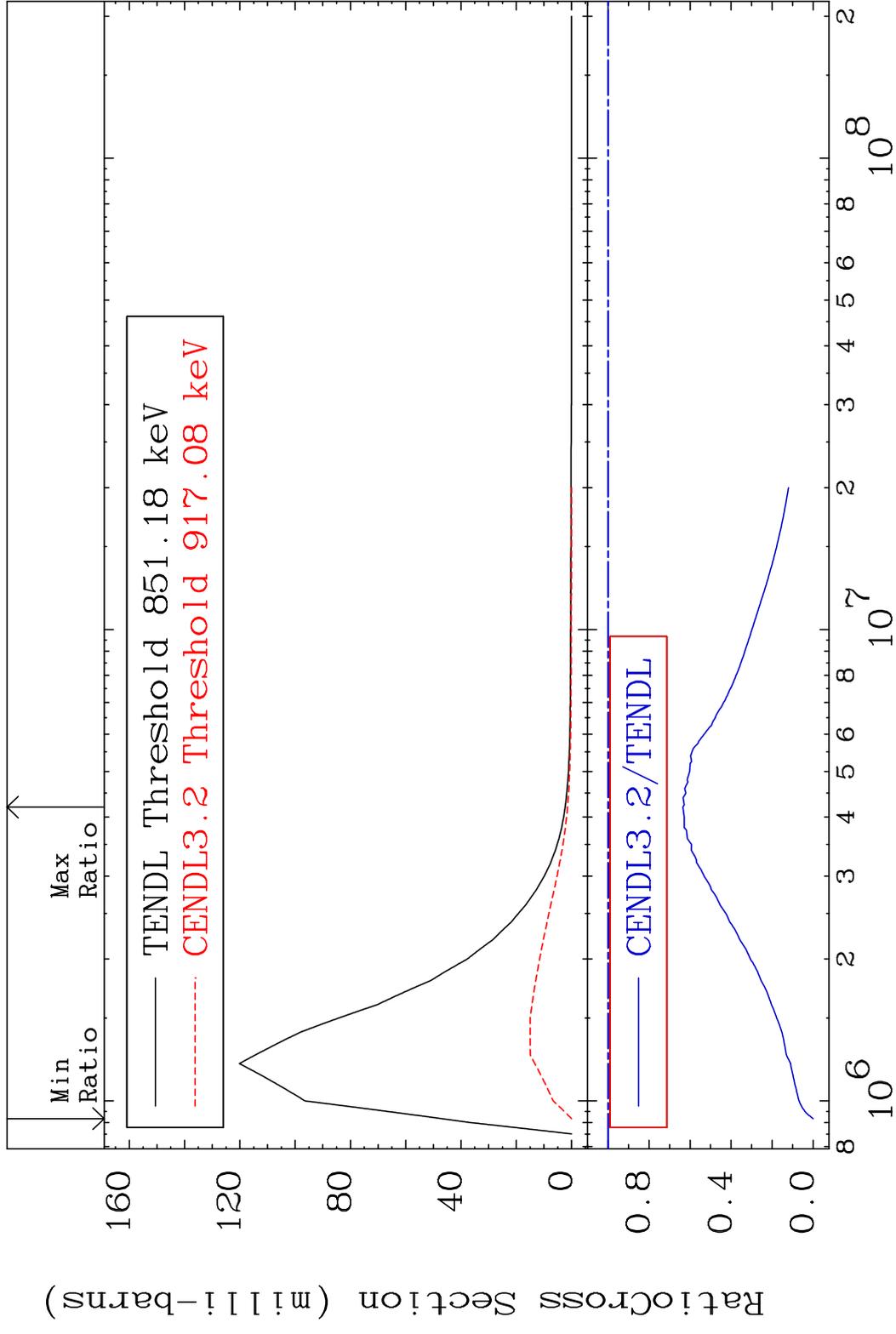


MAT 4440 MT= 67 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 9999. %

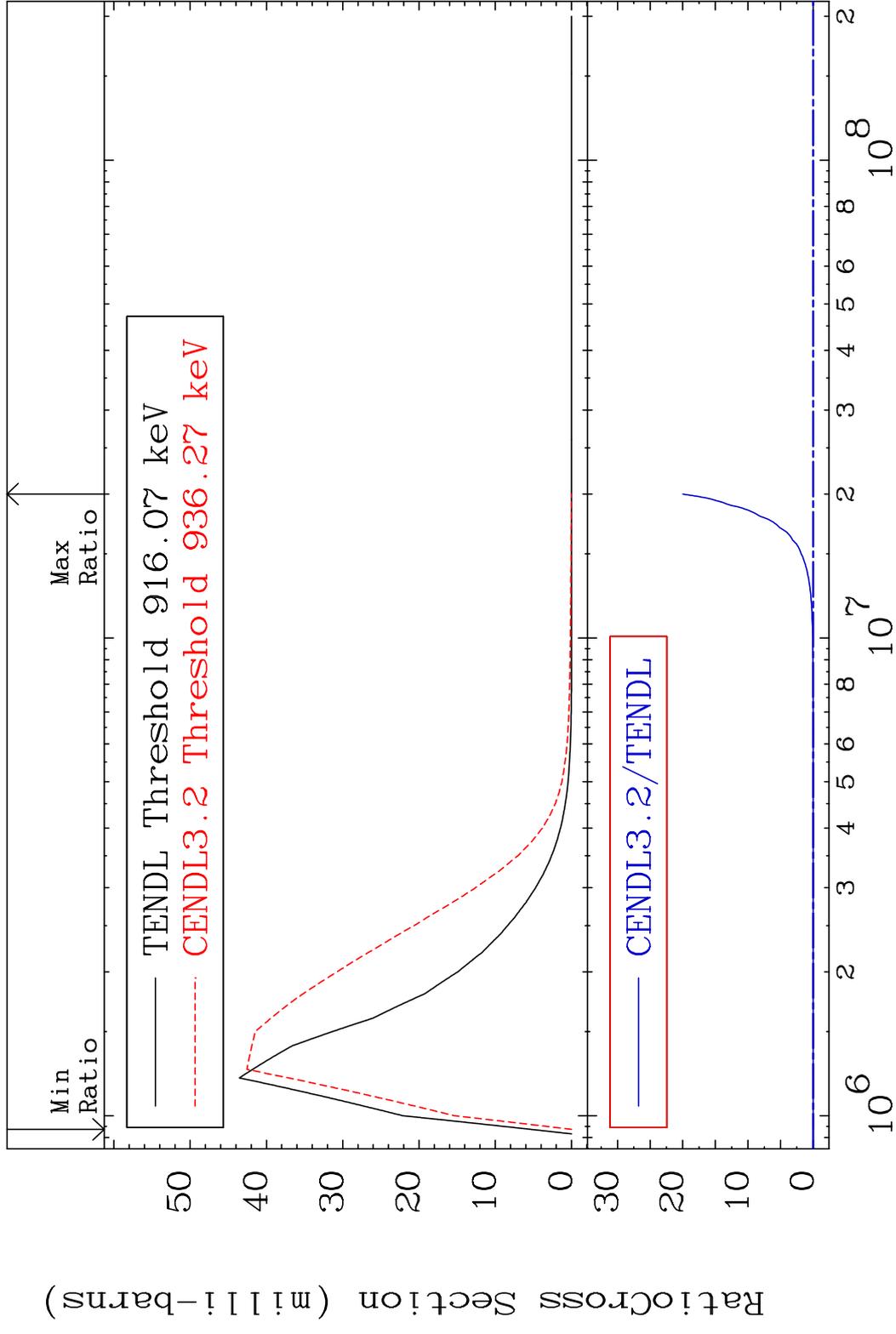


24 Incident Energy (eV) 44-Ru-101

MAT 4440 MT= 68 (n, n') Level 44-Ru-101
 Cross Section -100.0 To -36.47%

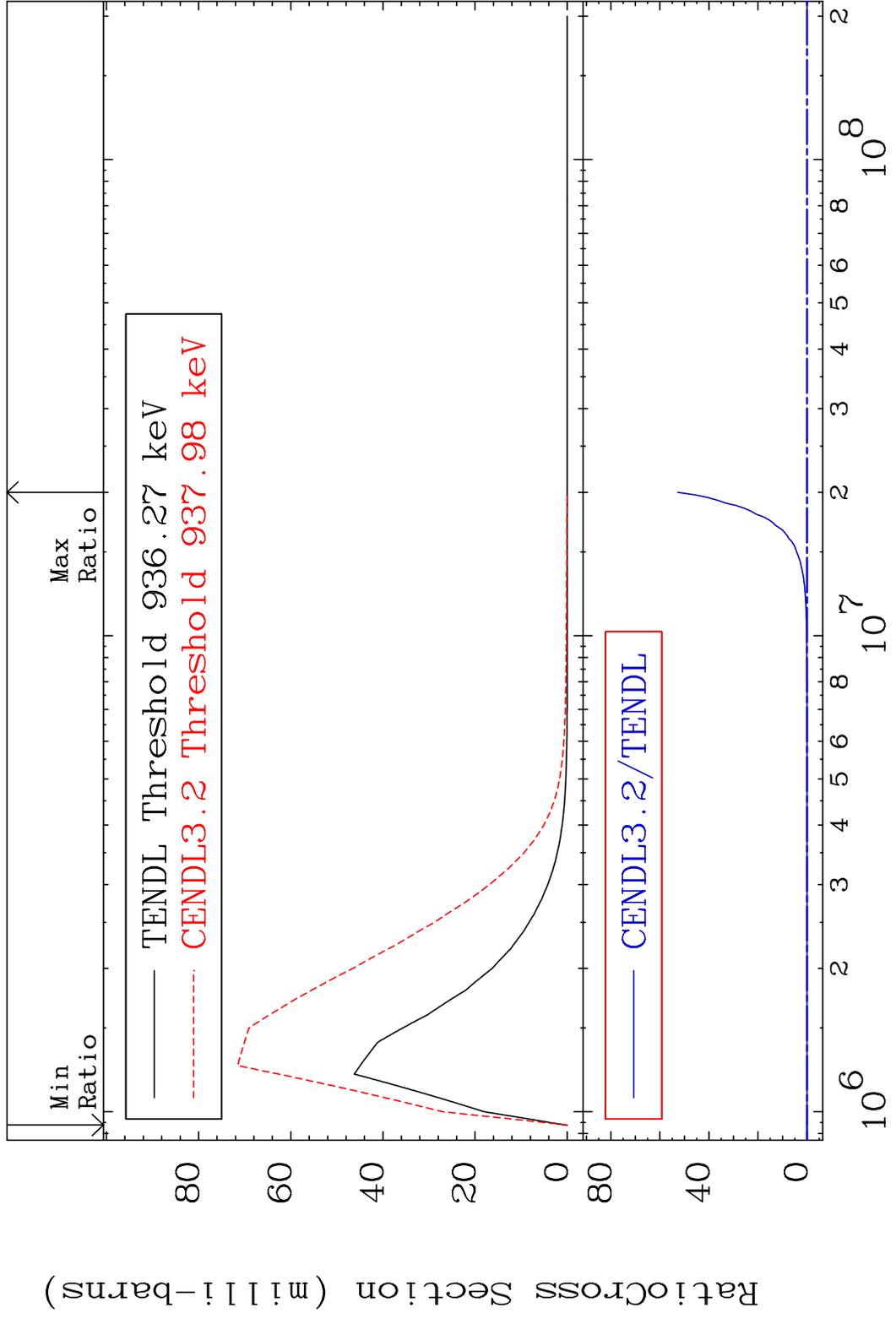


MAT 4440 MT= 69 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 9999. %



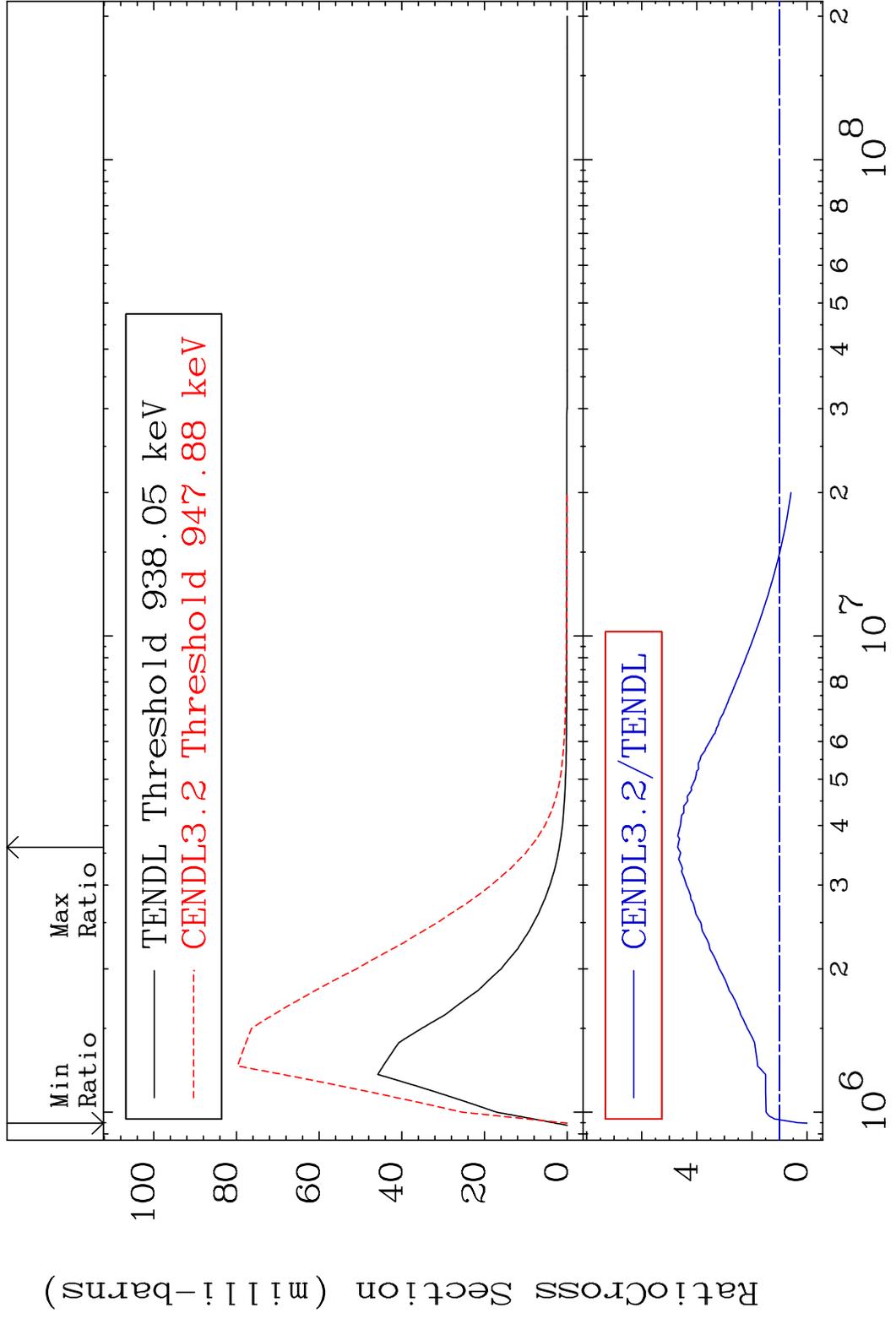
26 Incident Energy (eV) 44-Ru-101

MAT 4440 MT= 70 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 9999. %



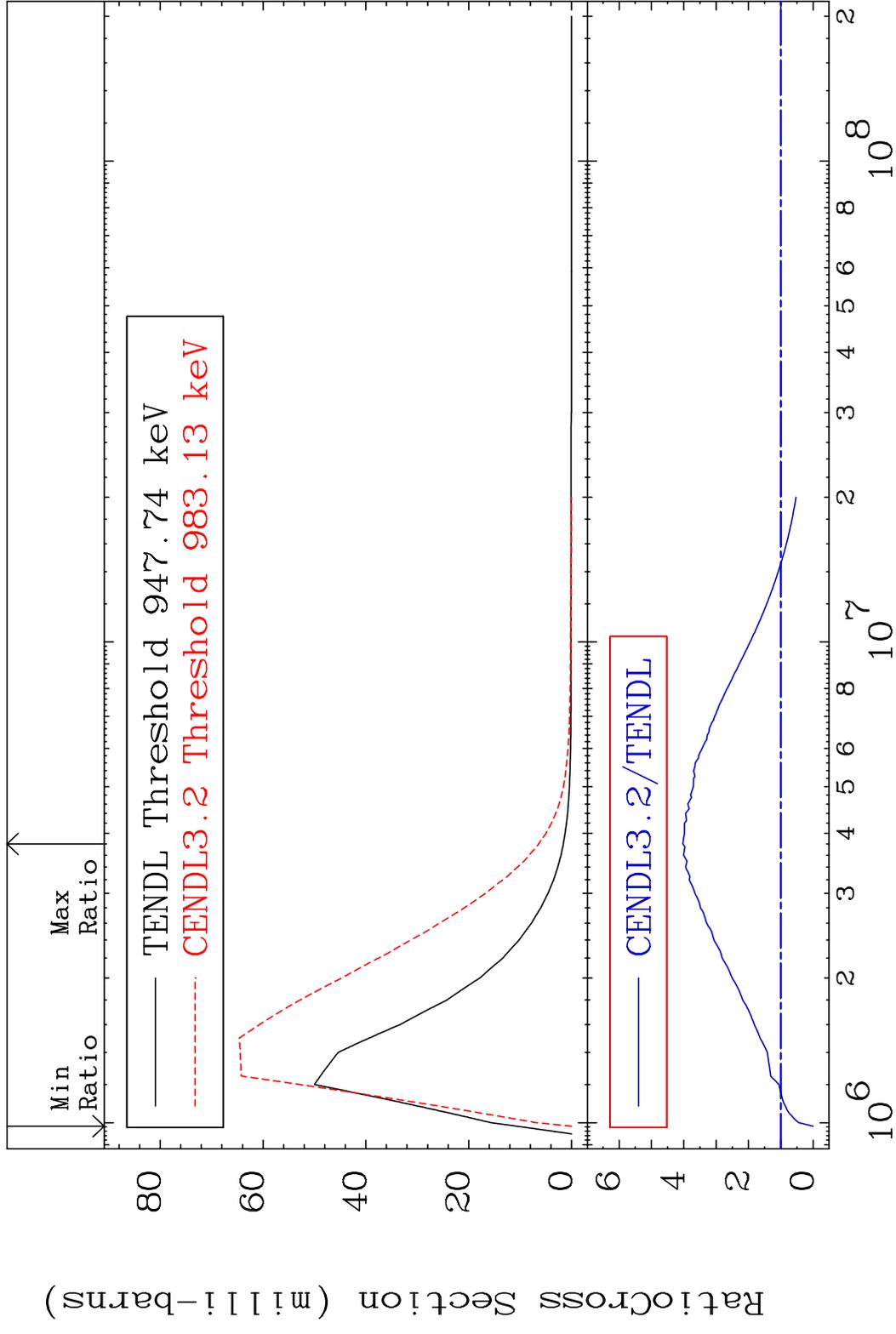
27 Incident Energy (eV) 44-Ru-101

MAT 4440 MT= 71 (n,n') Level 44-Ru-101
 Cross Section -100.0 To 369.4 %



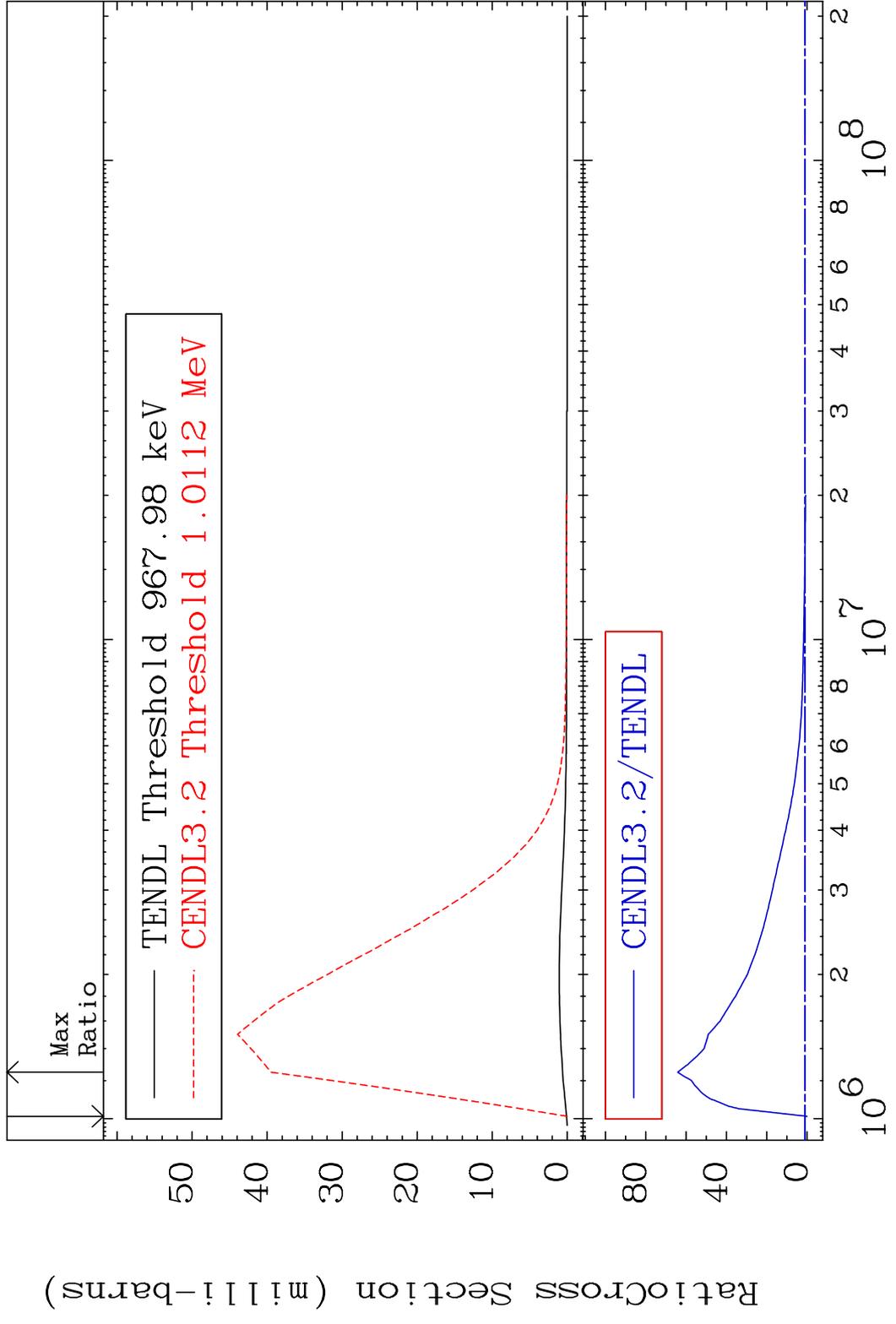
28 44-Ru-101

MAT 4440 MT= 72 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 302.9 %



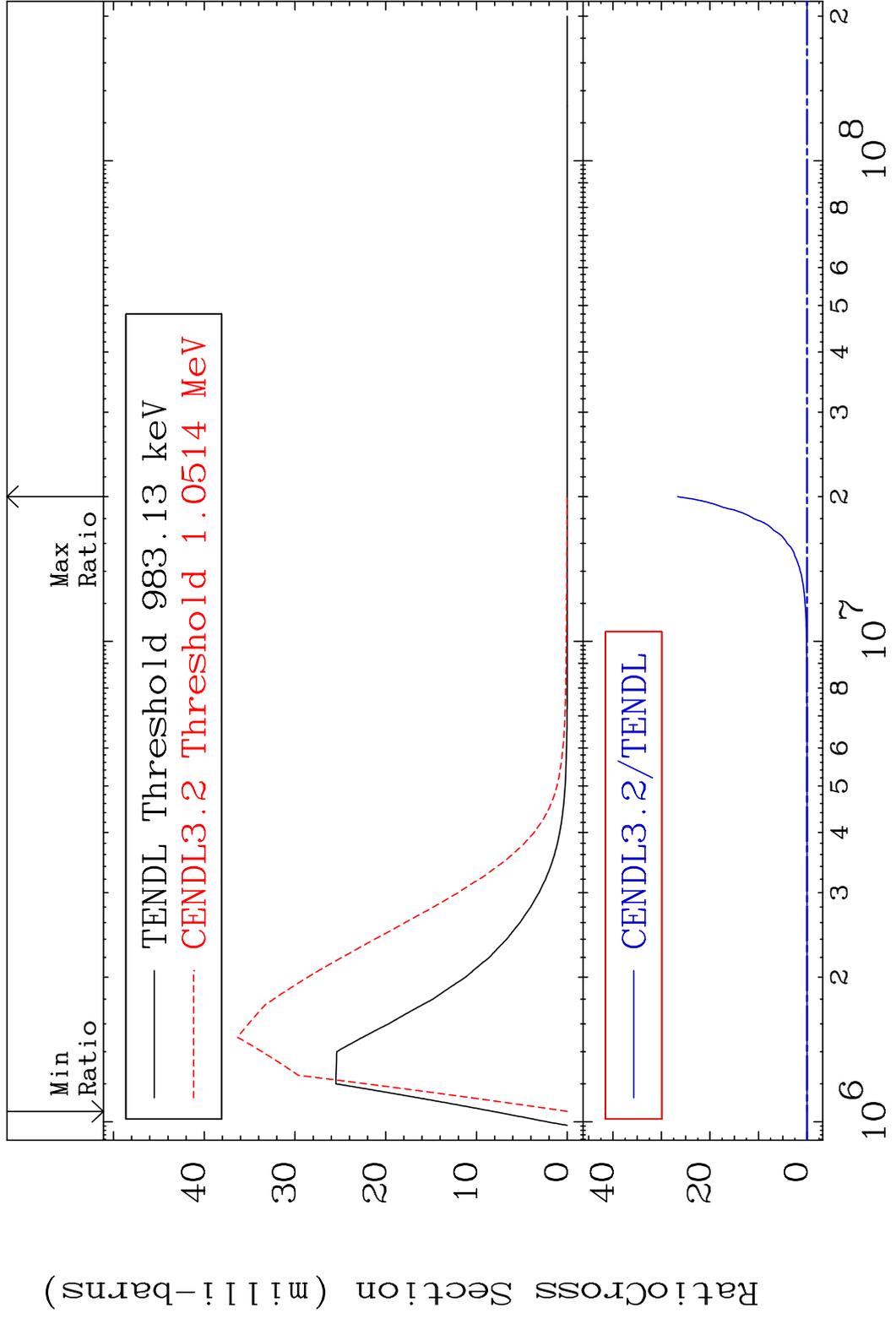
29 44-Ru-101

MAT 4440 MT= 73 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 6316. %

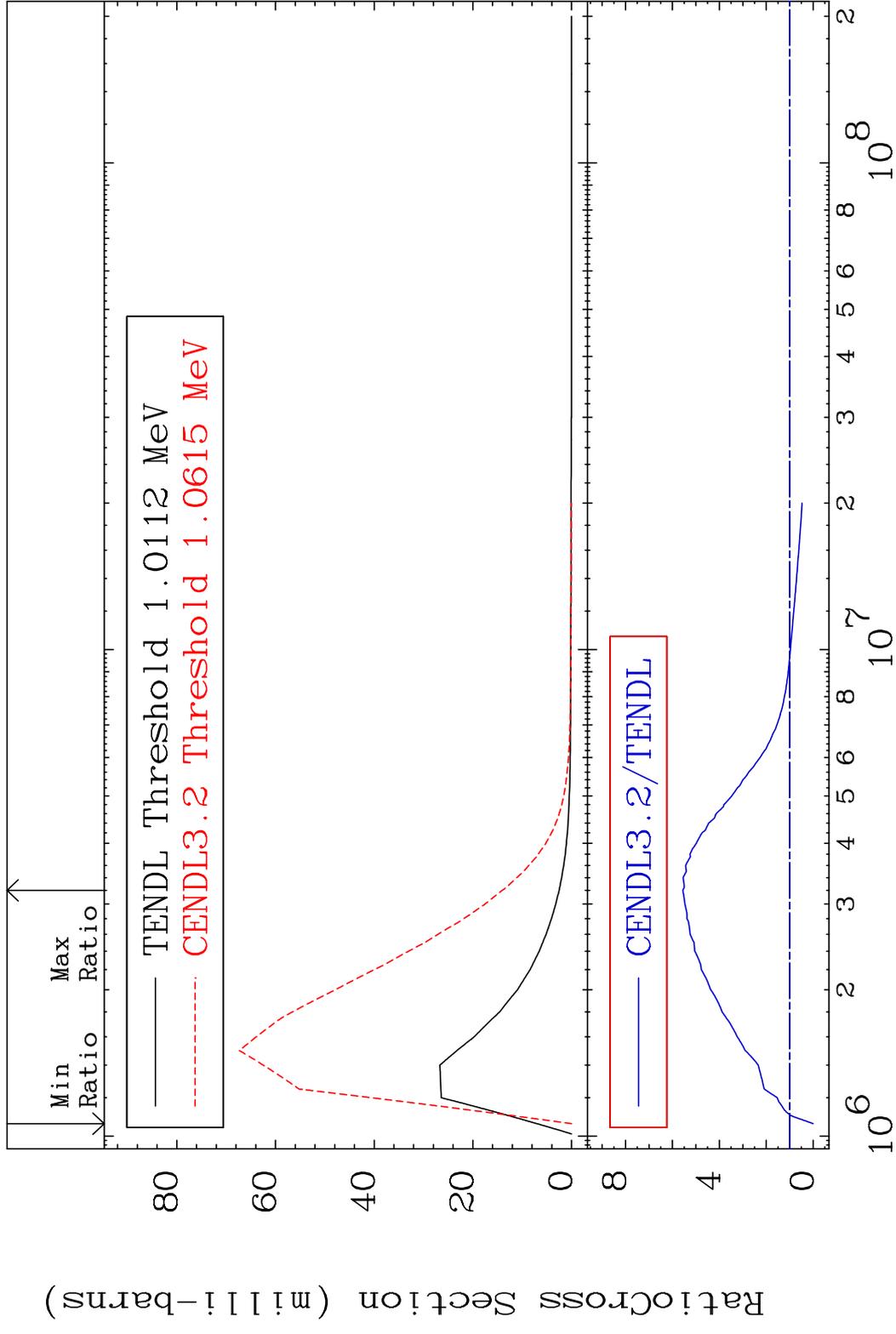


30 40 50 60 70 80 90 100 10⁶ 10⁷ 10⁸ 44-Ru-101

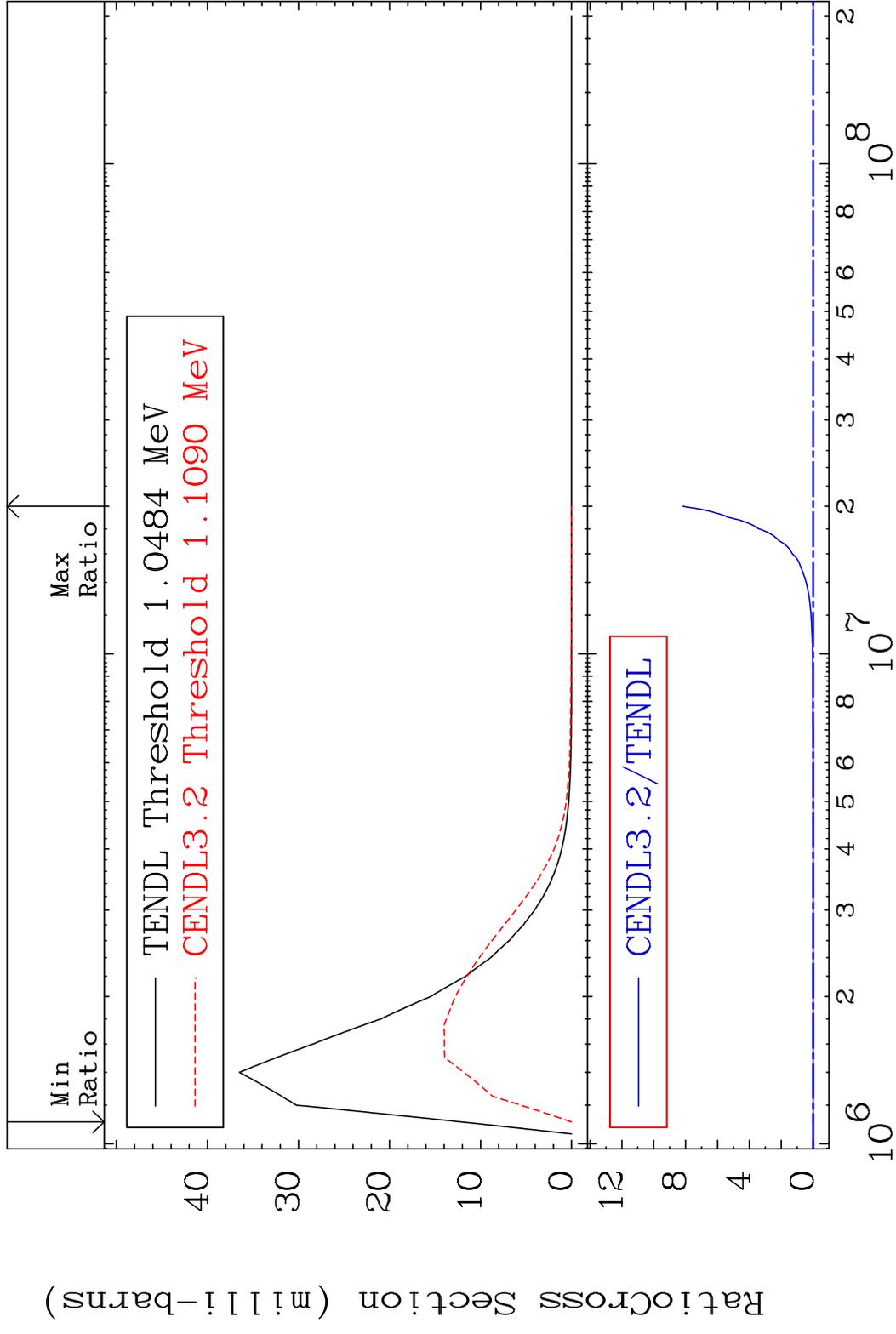
MAT 4440 MT= 74 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 9999. %



MAT 4440 MT= 75 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 455.8 %

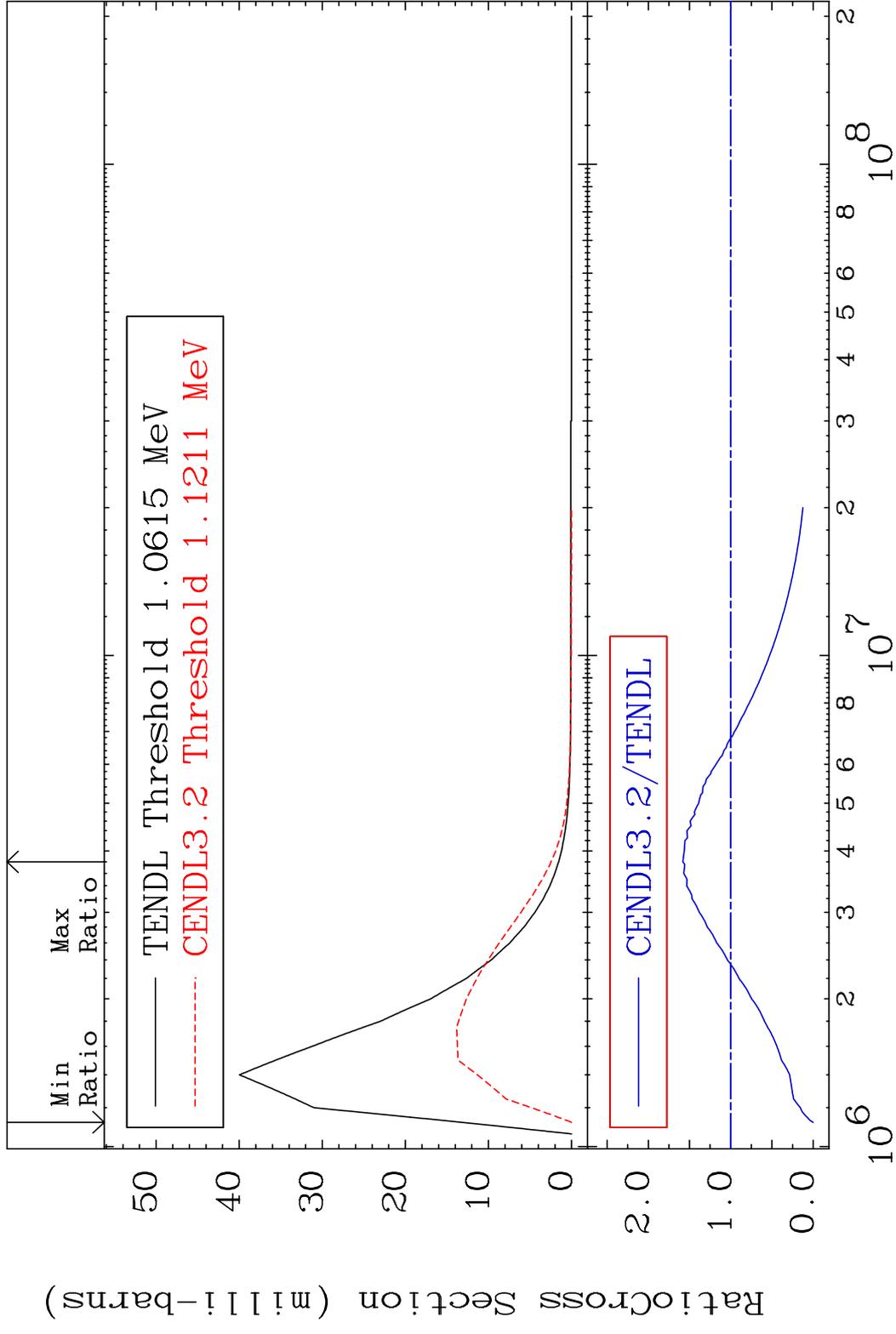


MAT 4440 MT= 76 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 9999. %

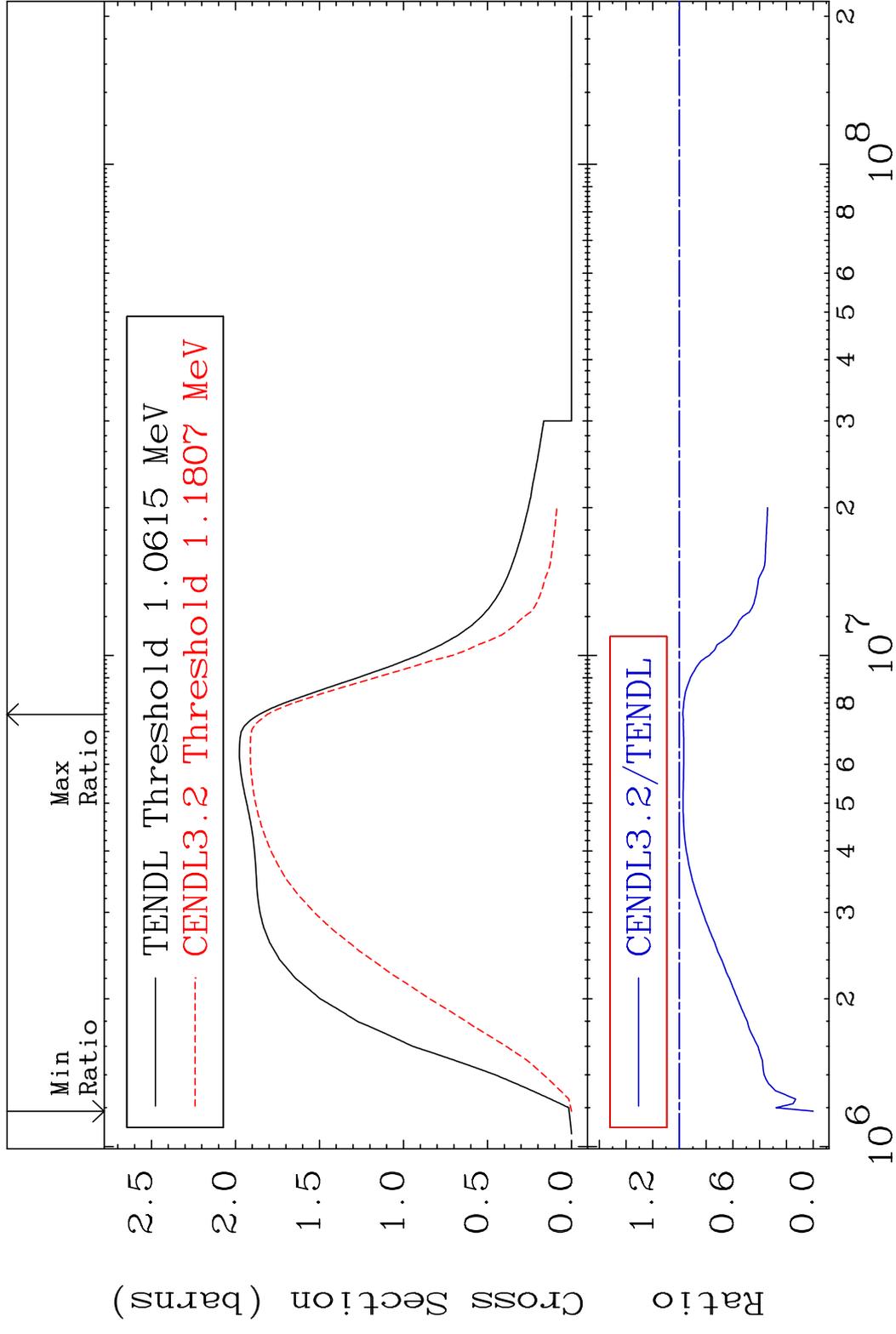


33 Incident Energy (eV) 44-Ru-101

MAT 4440 MT= 77 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 58.13 %



MAT 4440 (n,n') Continuum 44-Ru-101
 Cross Section -100.0 To -2.537%

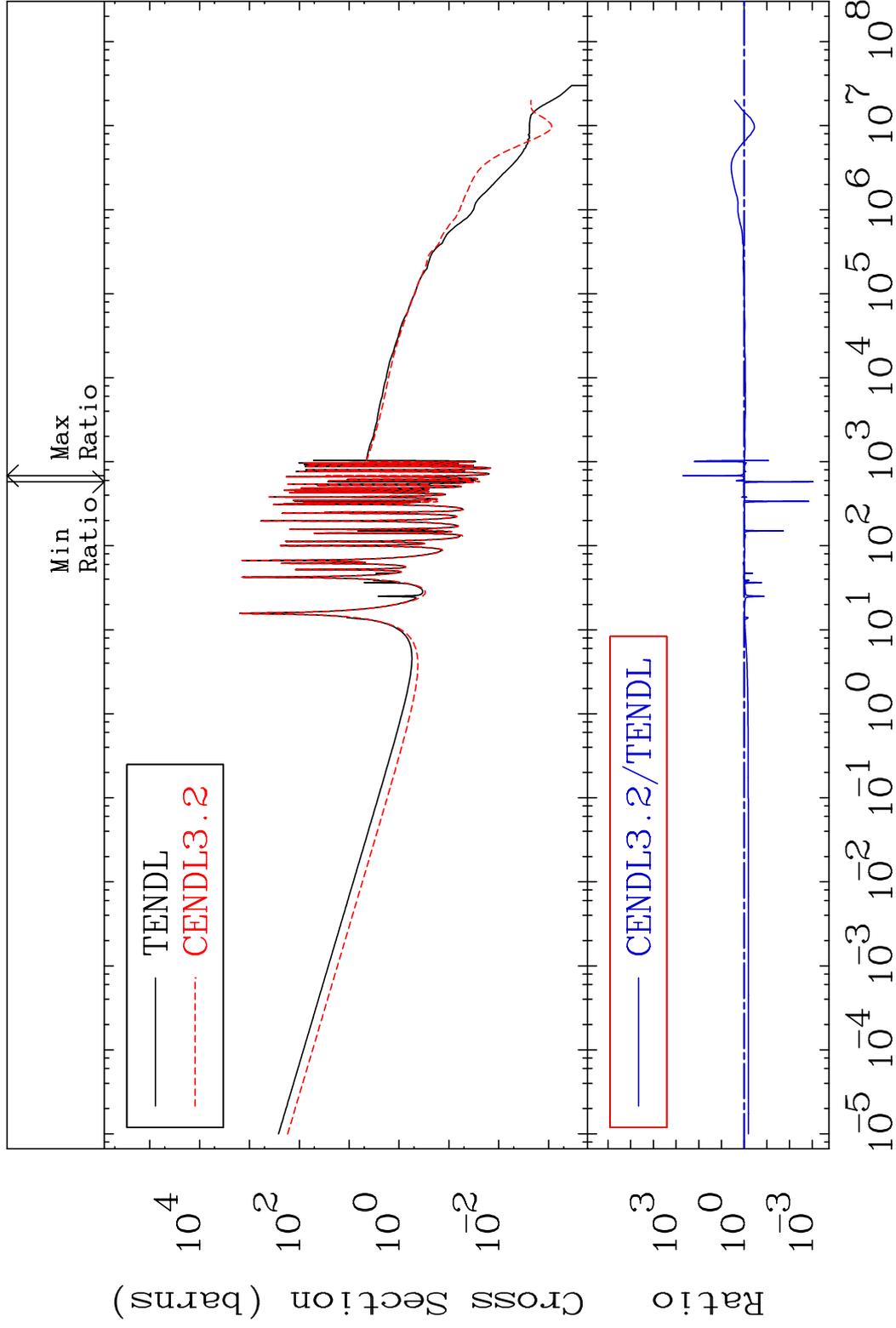


MAT 4440

(n, γ)

44-Ru-101

Cross Section -99.91 To 9999. %



36

Incident Energy (eV)

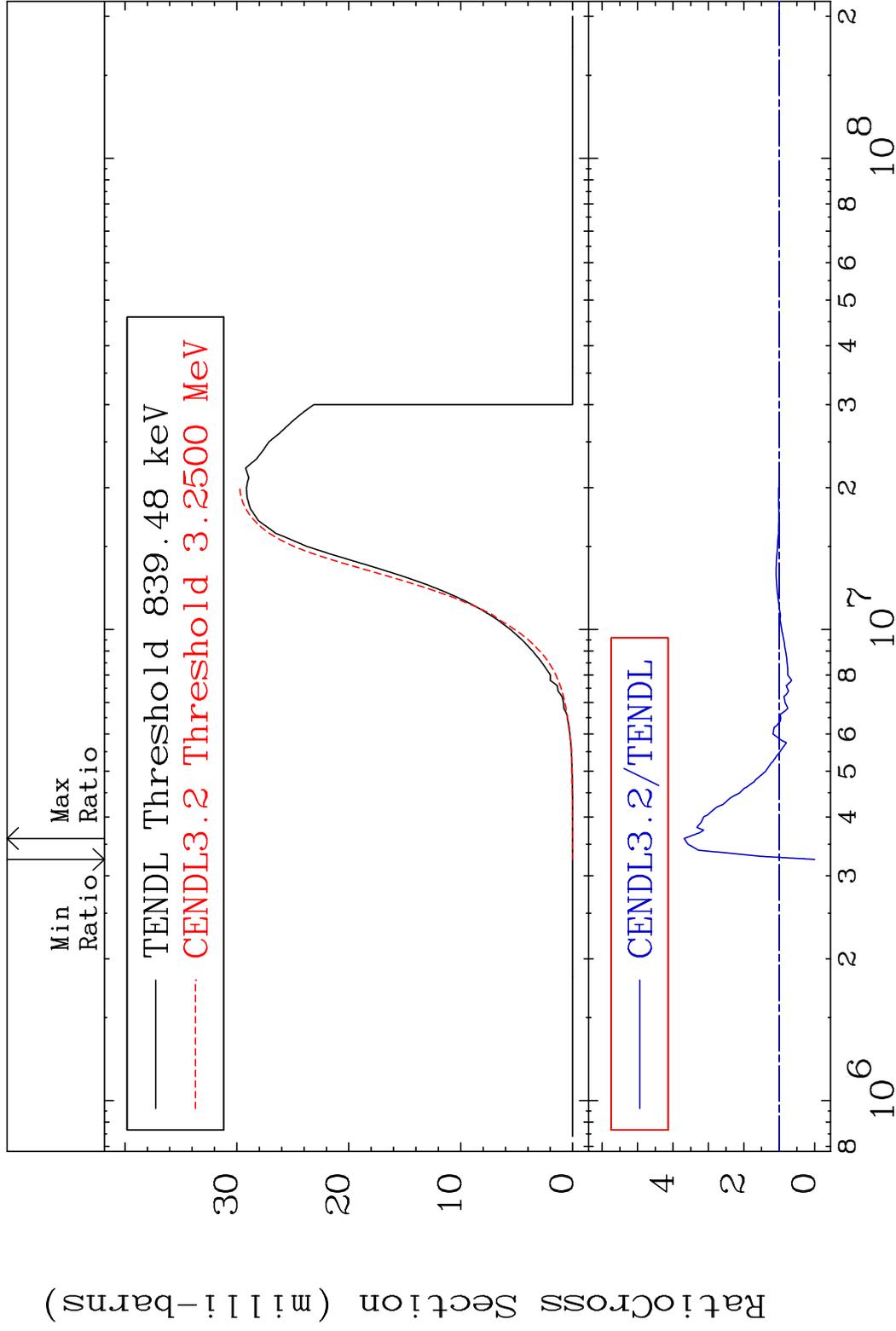
44-Ru-101

MAT 4440

(n, p)

44-Ru-101

Cross Section -100.0 To 268.5 %

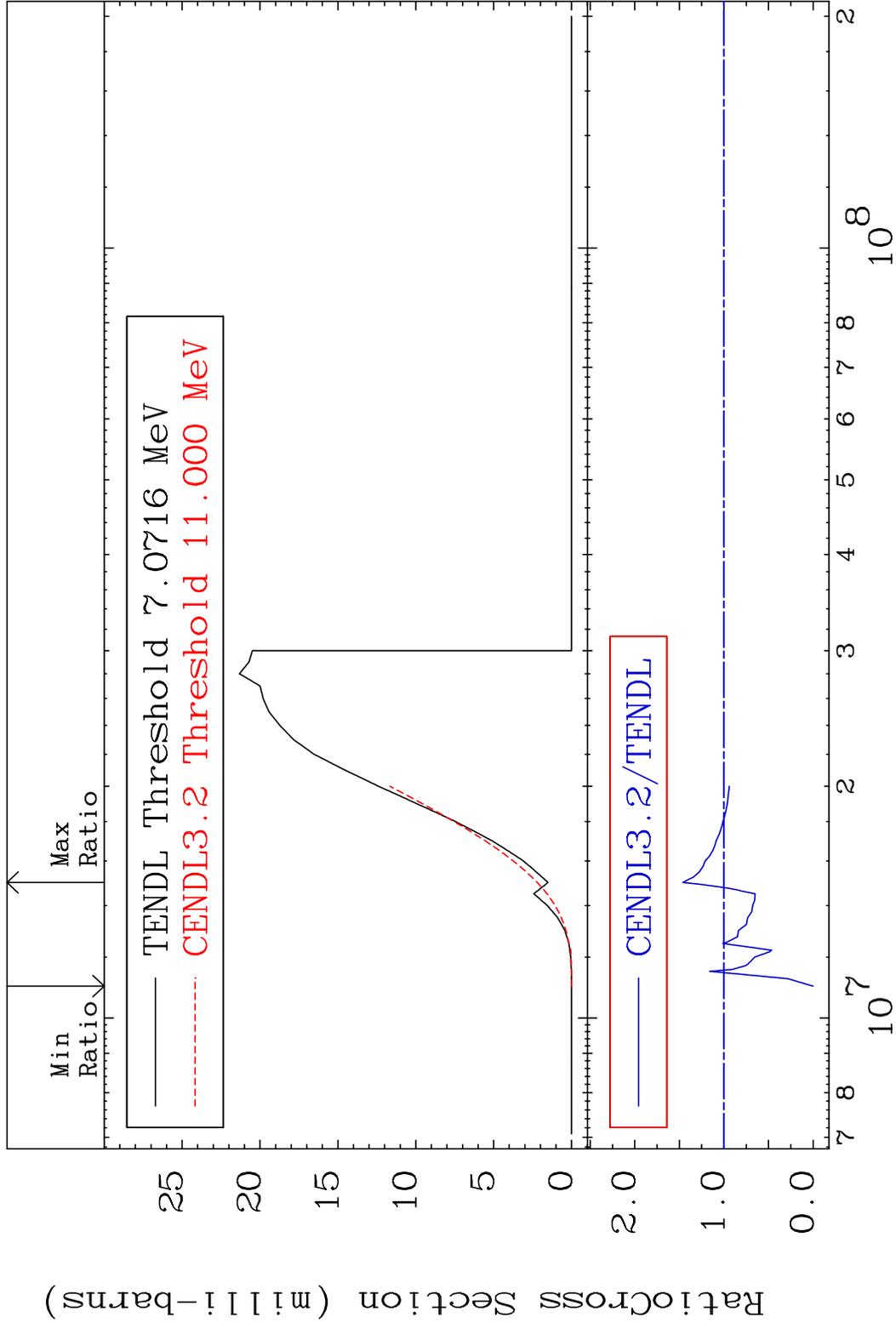


37

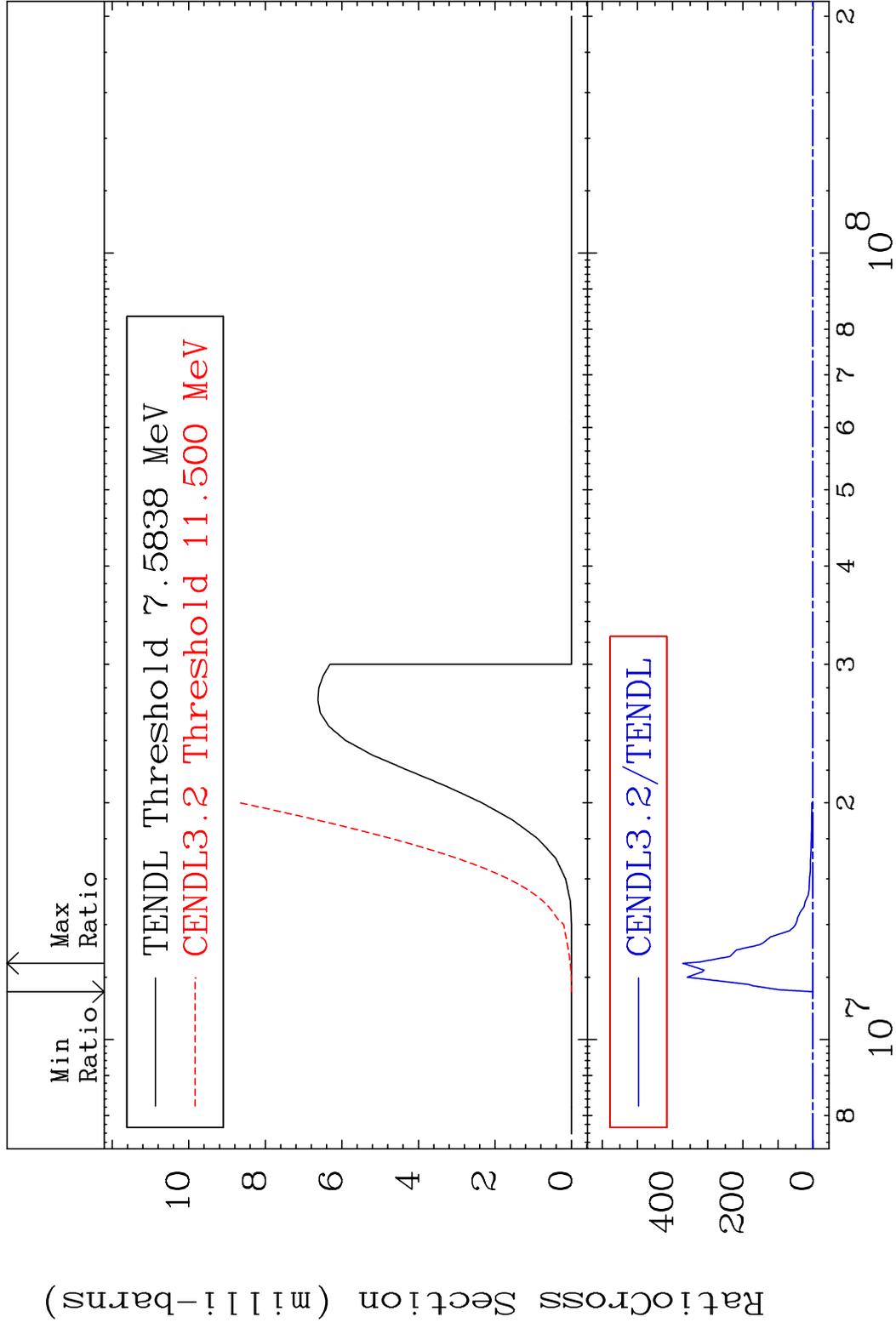
Incident Energy (eV)

44-Ru-101

MAT 4440 (n,d) 44-Ru-101
 Cross Section -100.0 To 46.12 %



MAT 4440 (n, t) 44-Ru-101
 Cross Section -100.0 To 9999. %



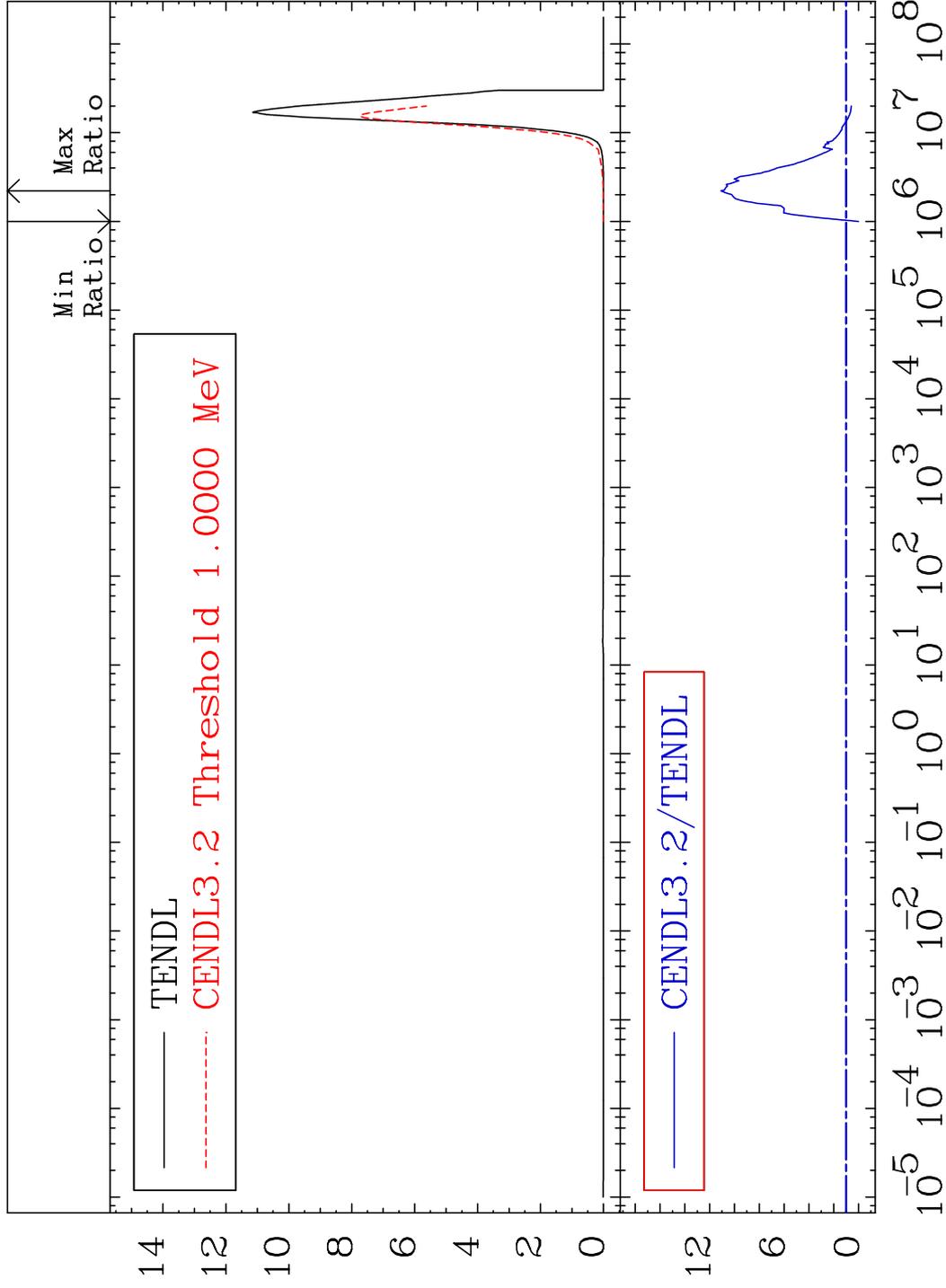
MAT 4440

(n, α)

44-Ru-101

Cross Section -100.0 To 1009. %

RatioCross Section (milli-barns)



40

Incident Energy (eV)

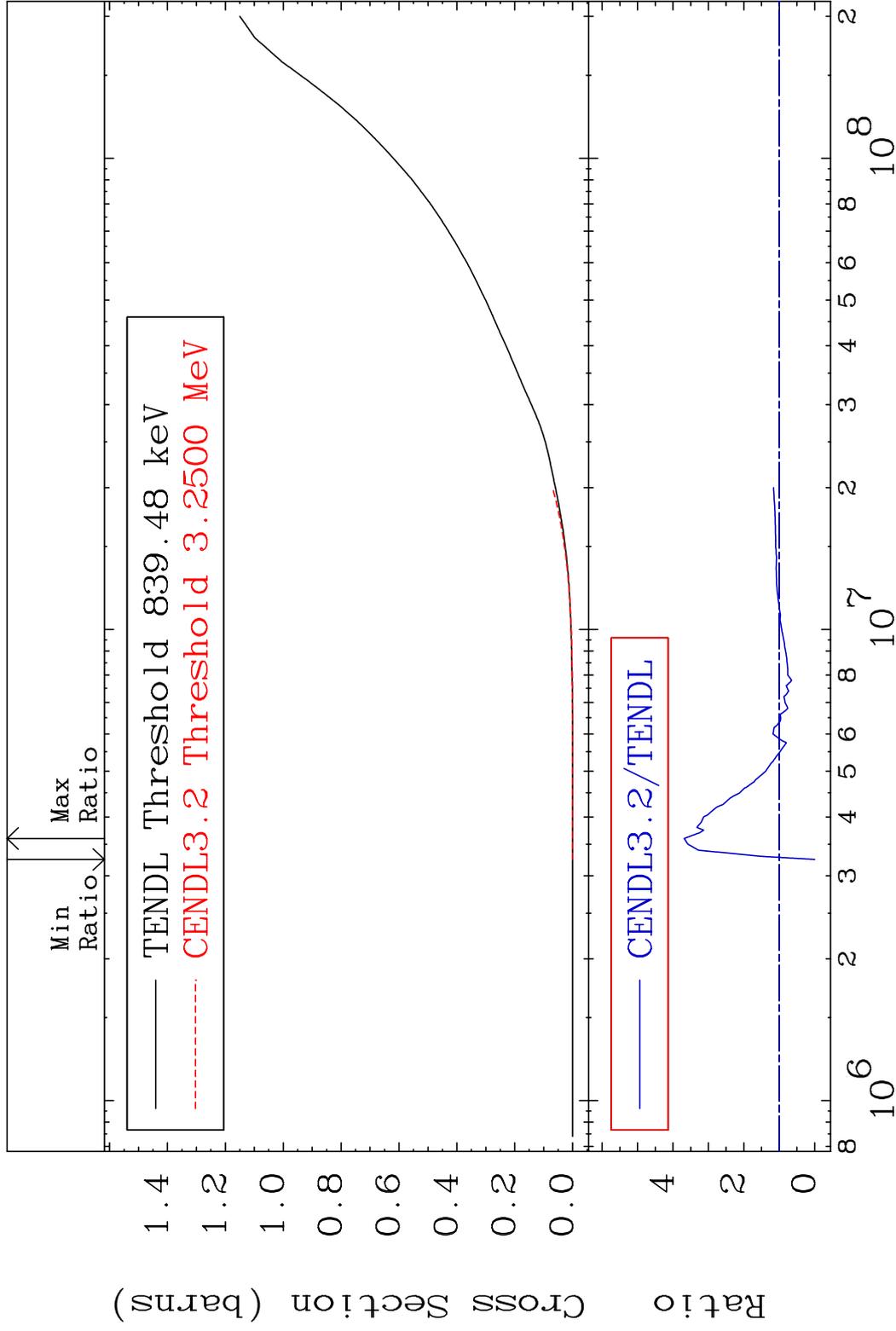
44-Ru-101

MAT 4440

Hydrogen Production

44-Ru-101

Cross Section -100.0 To 268.5 %

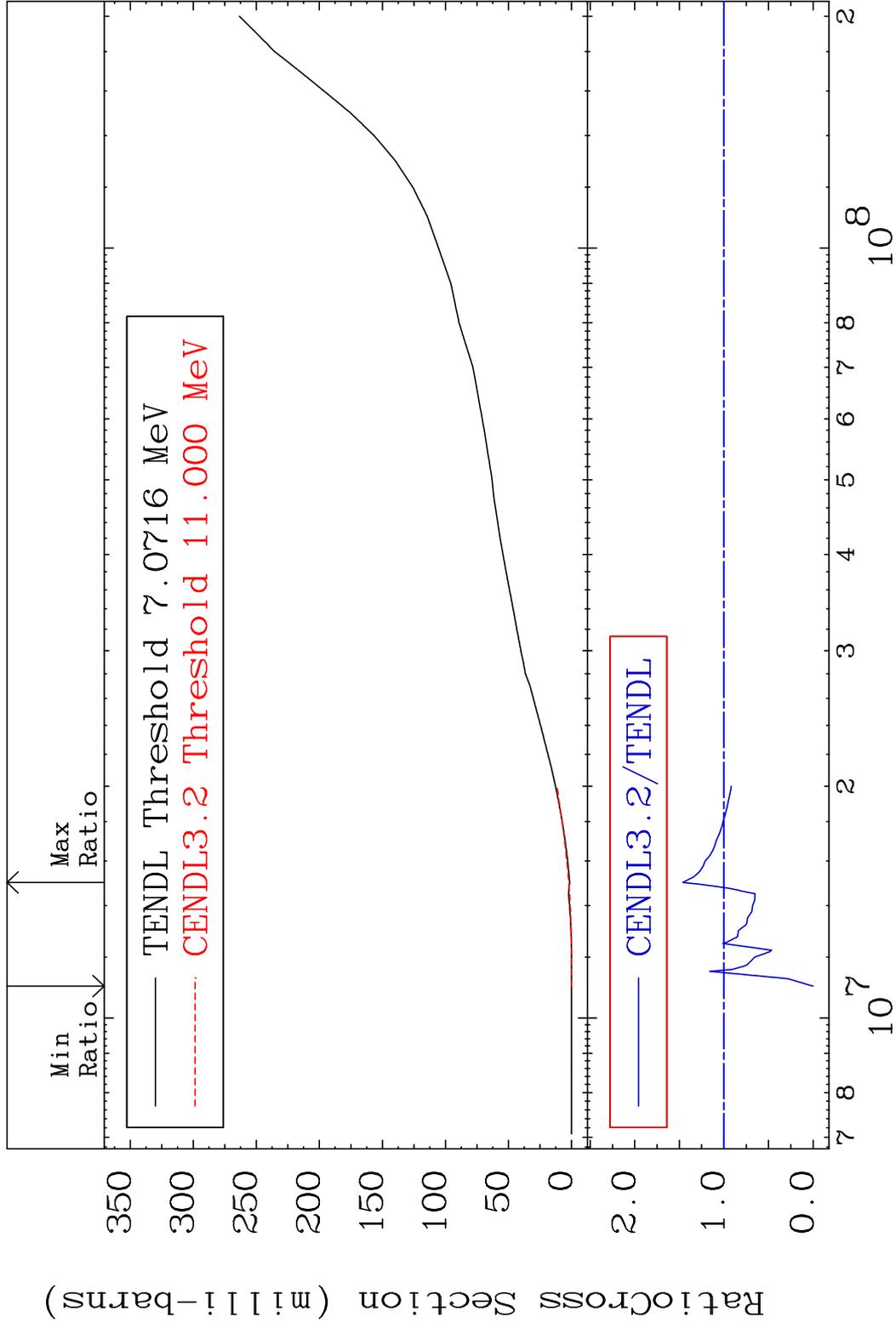


41

Incident Energy (eV)

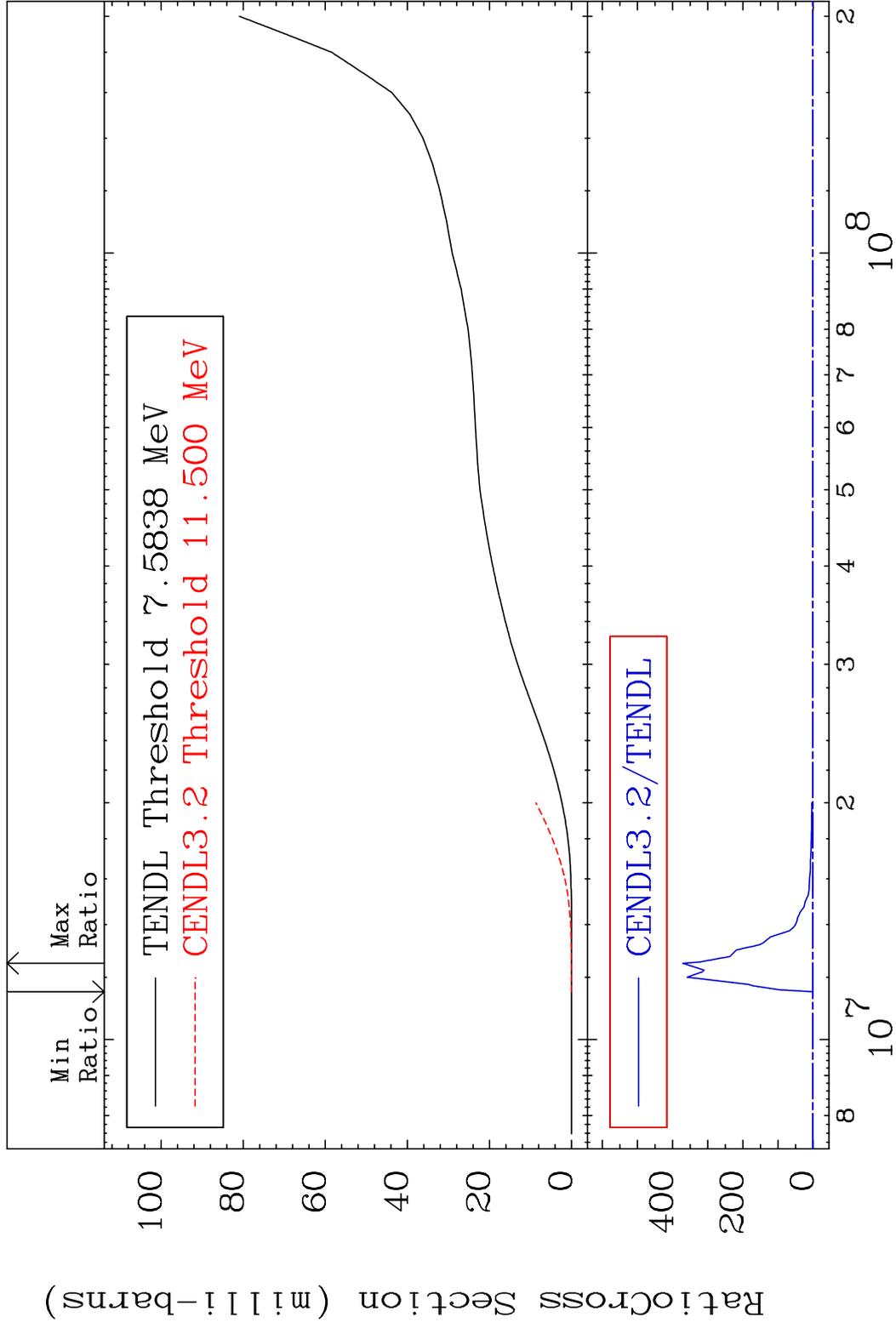
44-Ru-101

MAT 4440 Deuterium Production 44-Ru-101
 Cross Section -100.0 To 46.12 %



42 Incident Energy (eV) 44-Ru-101

MAT 4440 Tritium Production 44-Ru-101
 Cross Section -100.0 To 9999. %



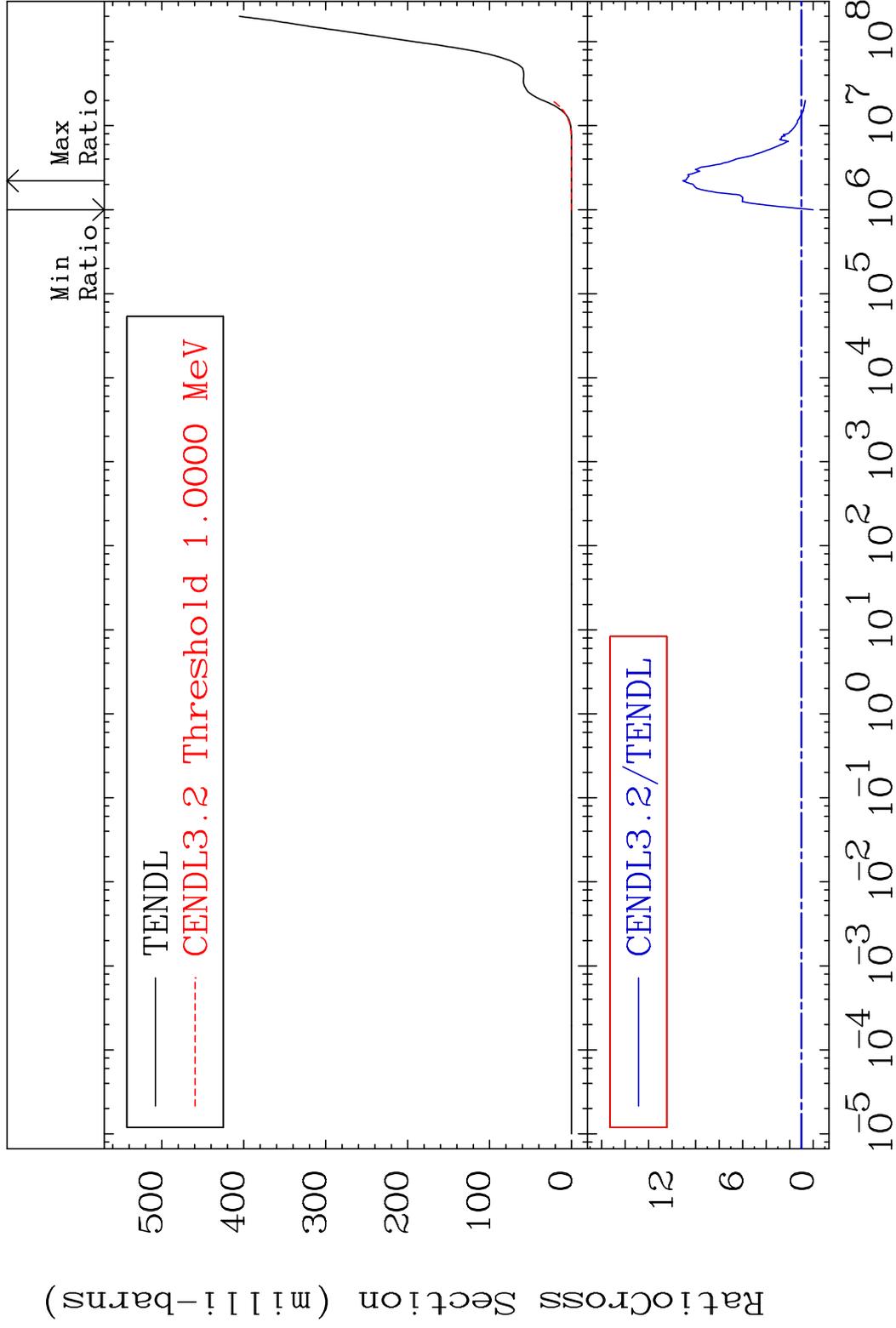
43 44-Ru-101

MAT 4440

He-4 Production

44-Ru-101

Cross Section -100.0 To 1009. %

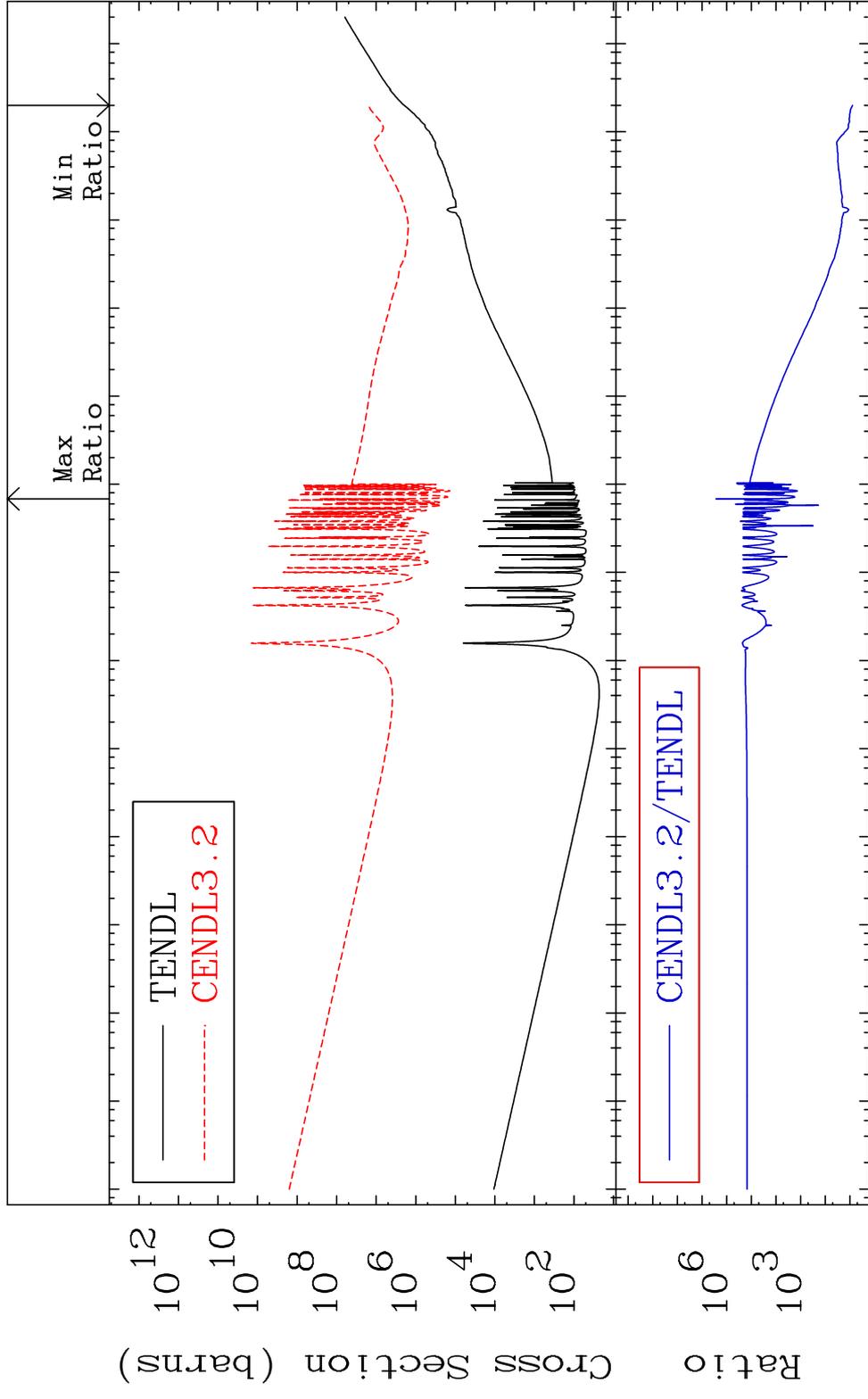


44

Incident Energy (eV)

44-Ru-101

MAT 4440 Kerma total (eV-barns) 44-Ru-101
 Cross Section 693.8 To 9999. %



Ratio
 10⁶
 10³

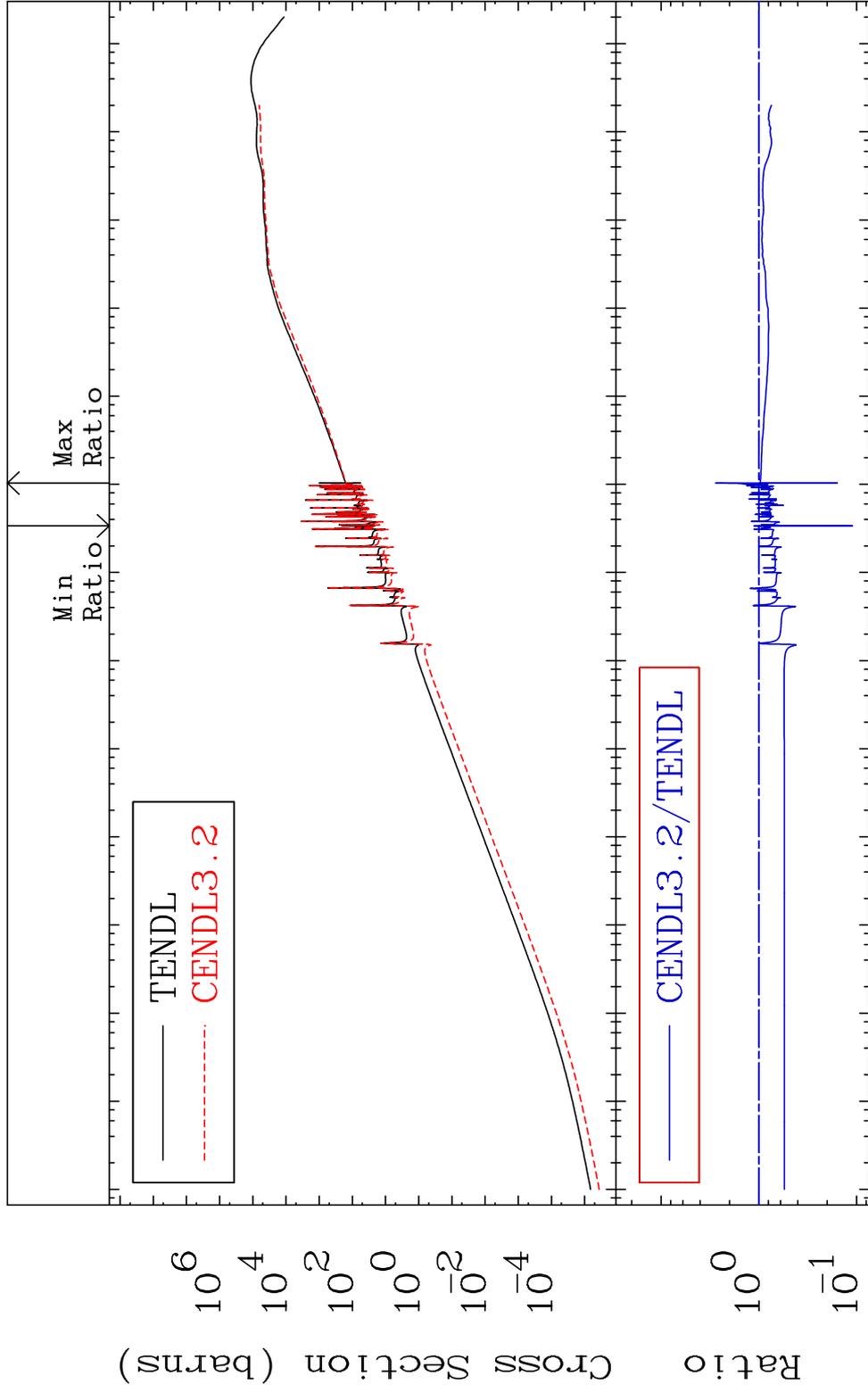
45 Incident Energy (eV) 44-Ru-101

MAT 4440

Kerma elastic

44-Ru-101

Cross Section -88.97 To 175.7 %

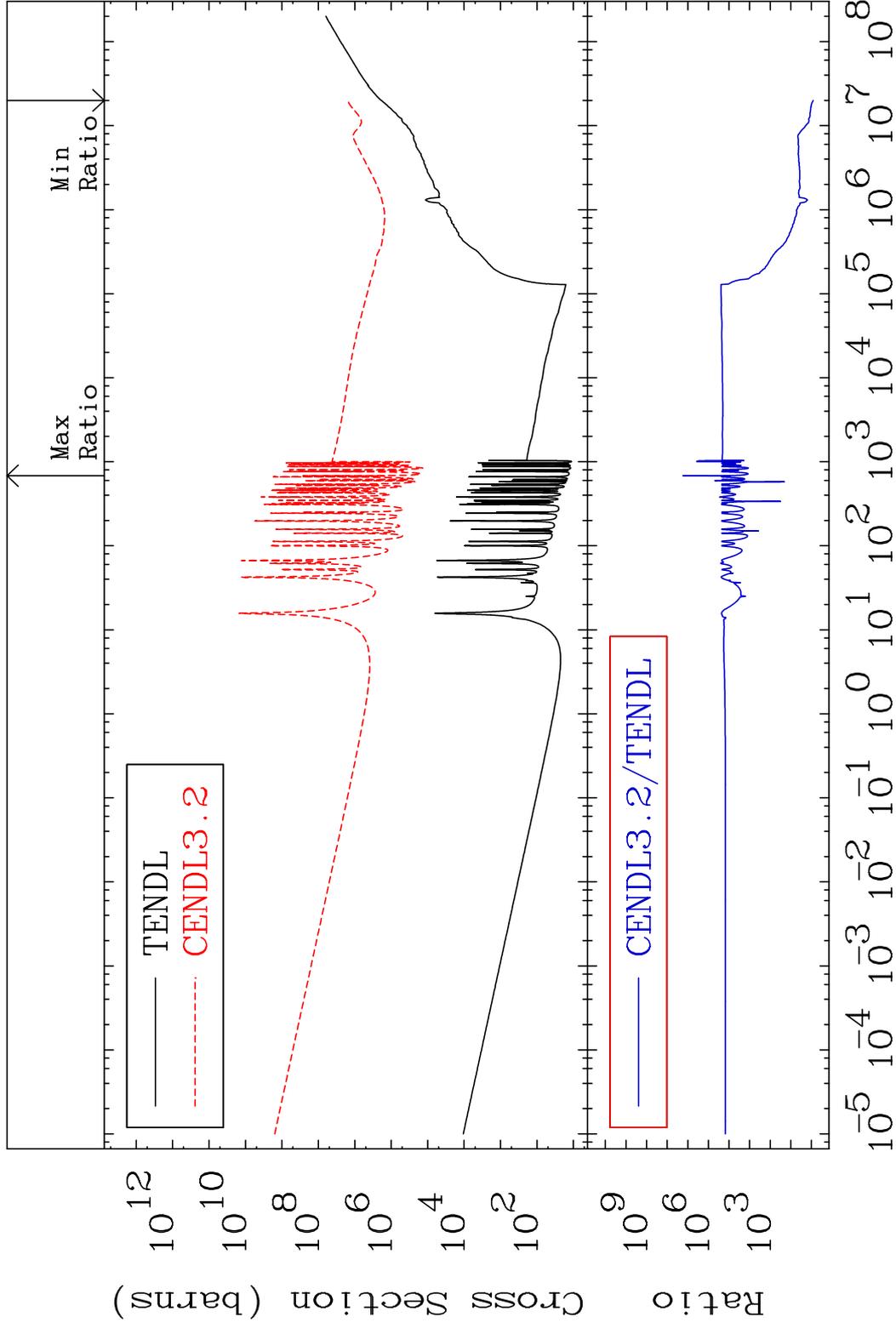


46

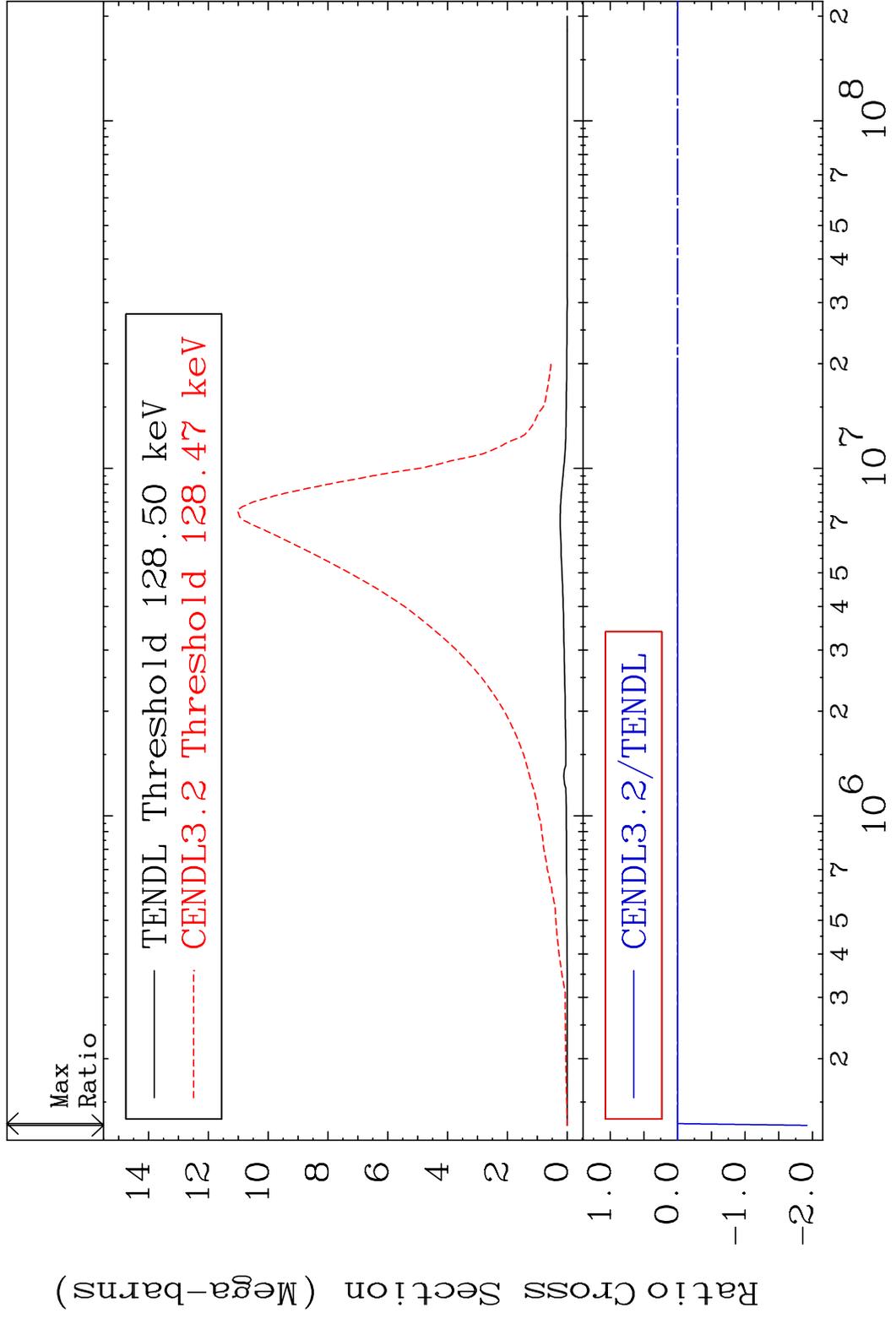
Incident Energy (eV)

44-Ru-101

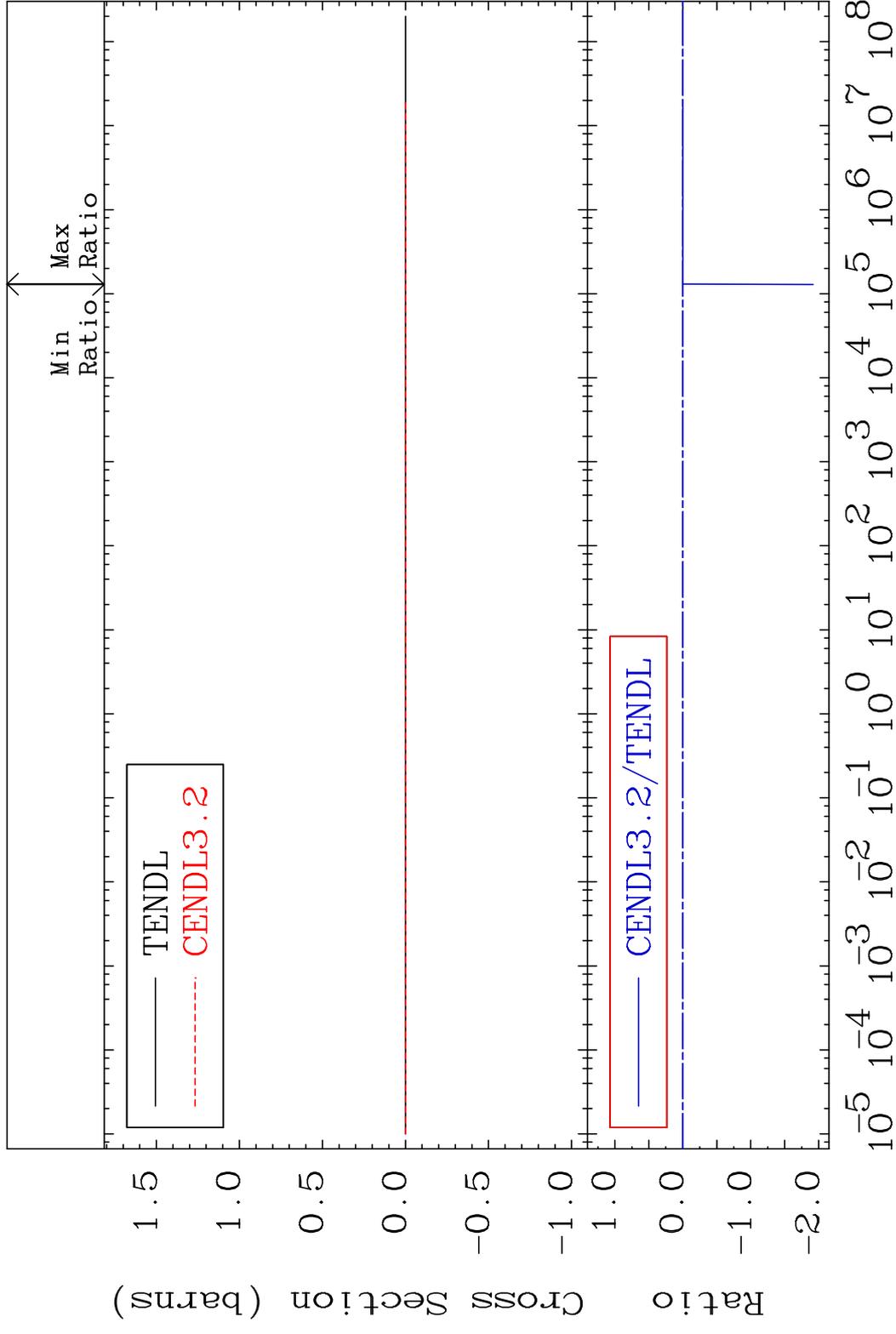
MAT 4440 Kerma non-elastic (all but mt2) 44-Ru-101
 Cross Section 726.9 To 9999. %



MAT 4440 Kerma inelastic (mt51-91) 44-Ru-101
 Cross Section -9999. To 6431. %

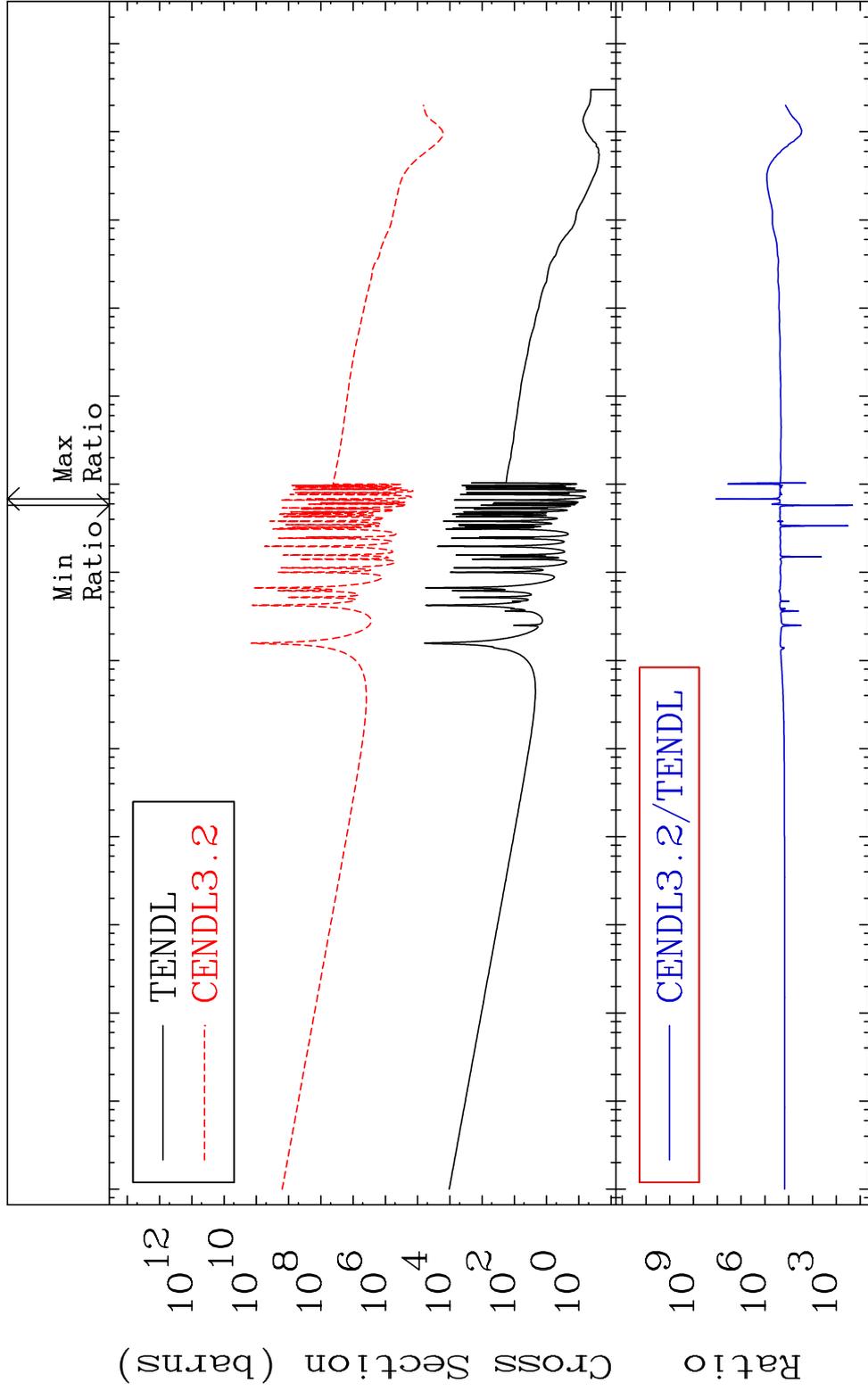


MAT 4440 Kerma fission (mt18 or mt19-20-21-38) 44-Ru-101
 Cross Section -9999. To 6431. %



MAT 4440

Kerma capture (mt102) 44-Ru-101
Cross Section 9999. To 9999. %

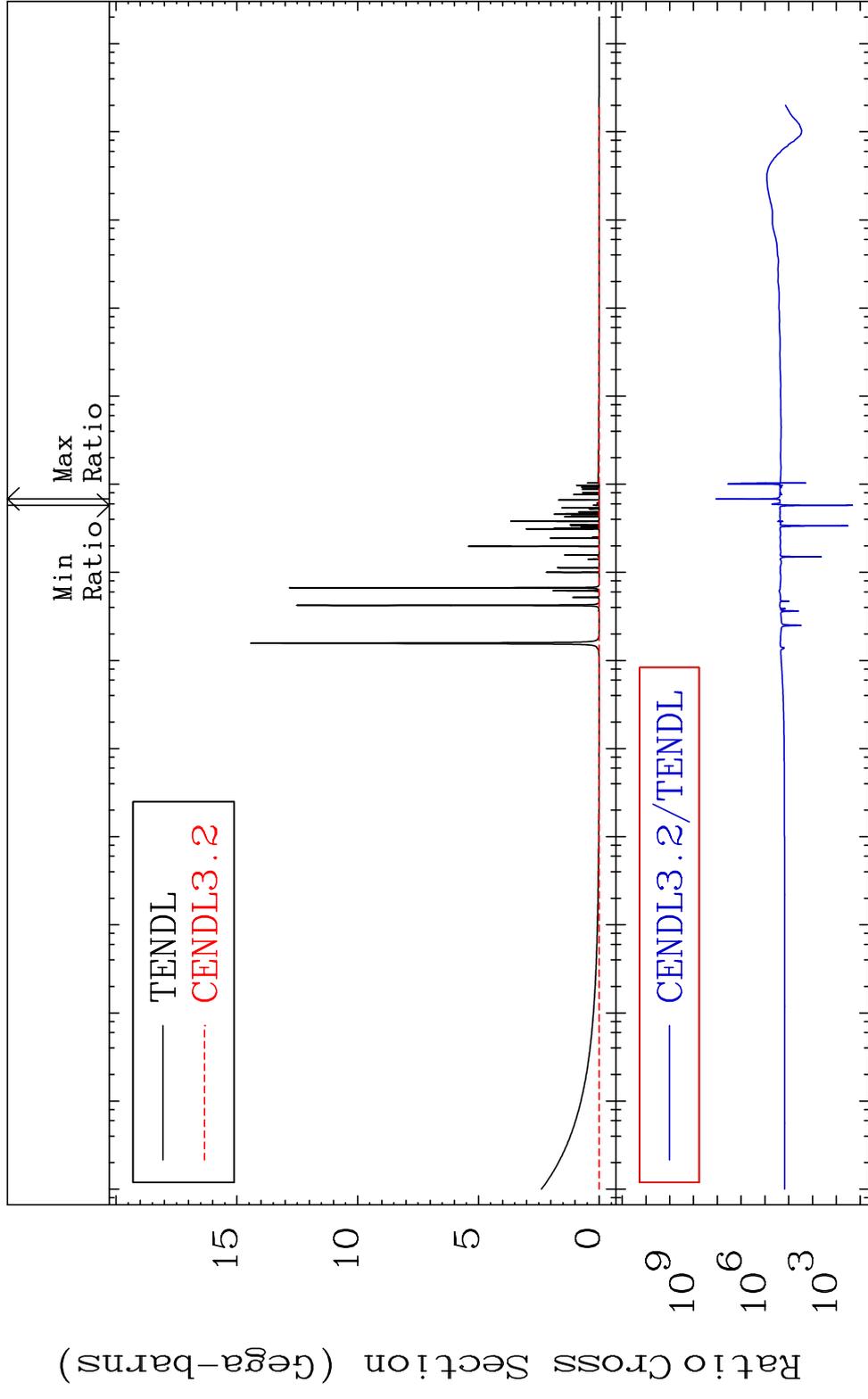


50

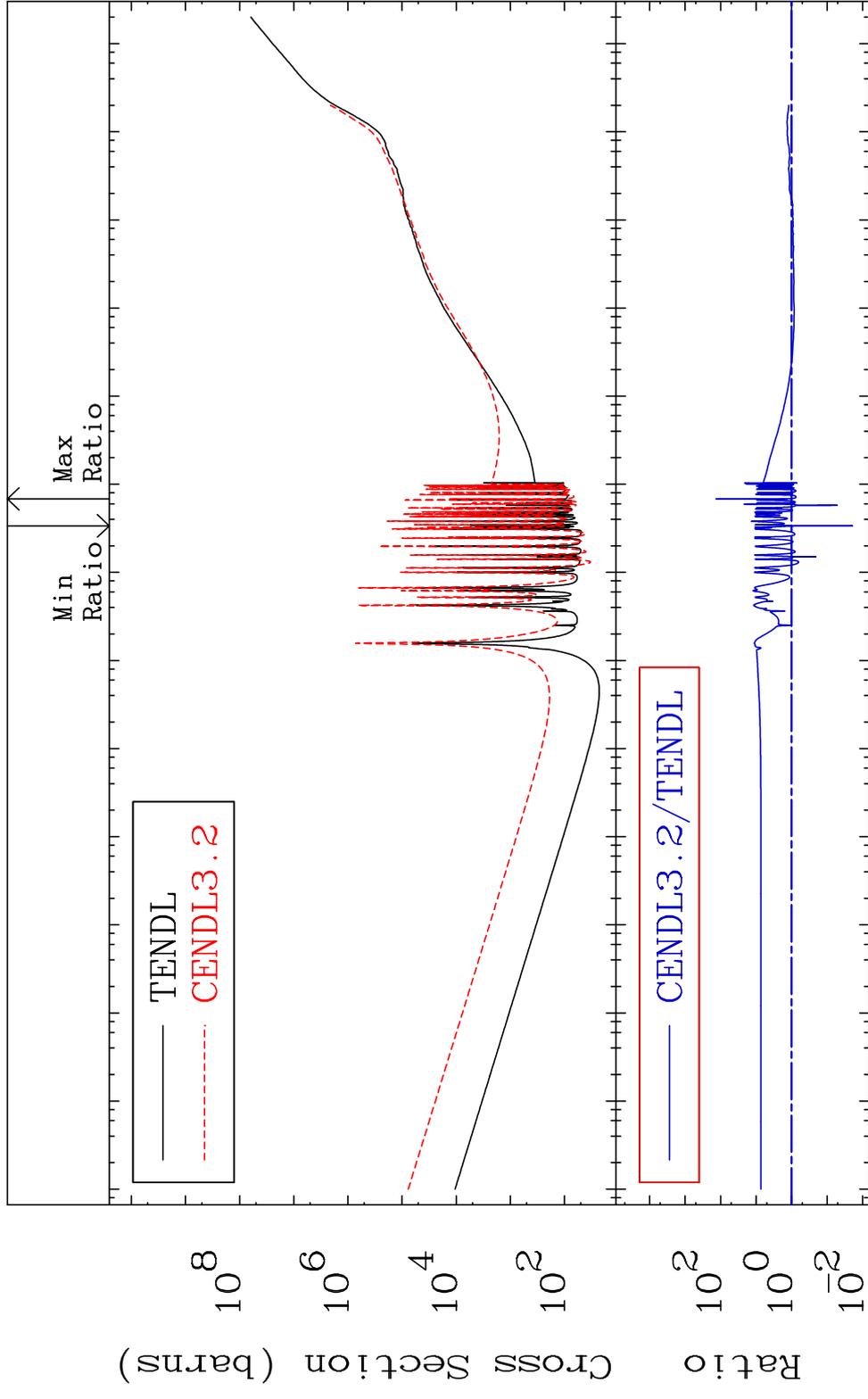
Incident Energy (eV)

44-Ru-101

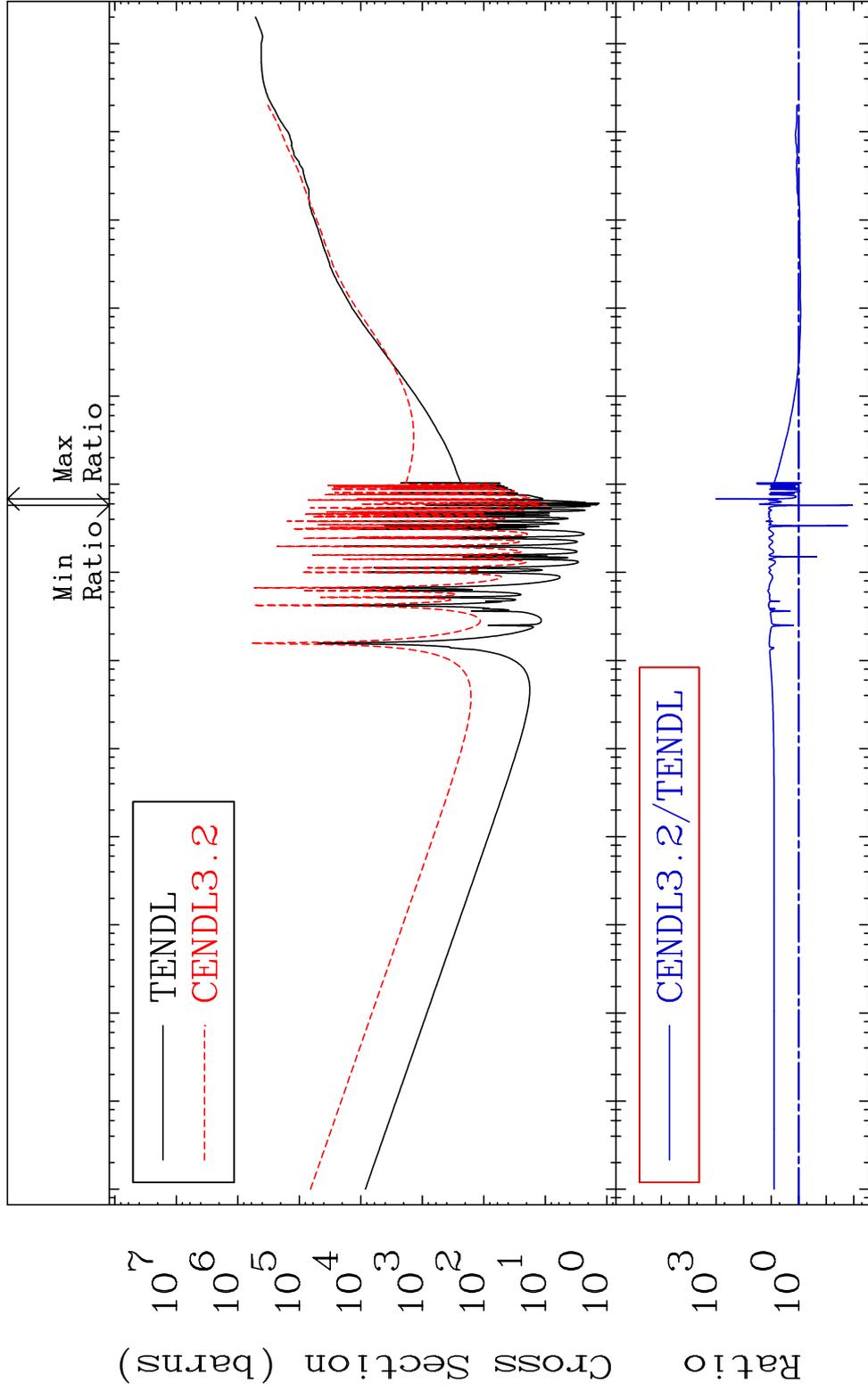
MAT 4440 Total photon (eV-barns) 44-Ru-101
 Cross Section 9999. To 9999. %



MAT 4440 Total kinematic kerma (high limit) 44-Ru-101
 Cross Section -98.07 To 9999. %



MAT 4440 Dpa total (eV-barns) 44-Ru-101
 Cross Section -98.90 To 9999. %

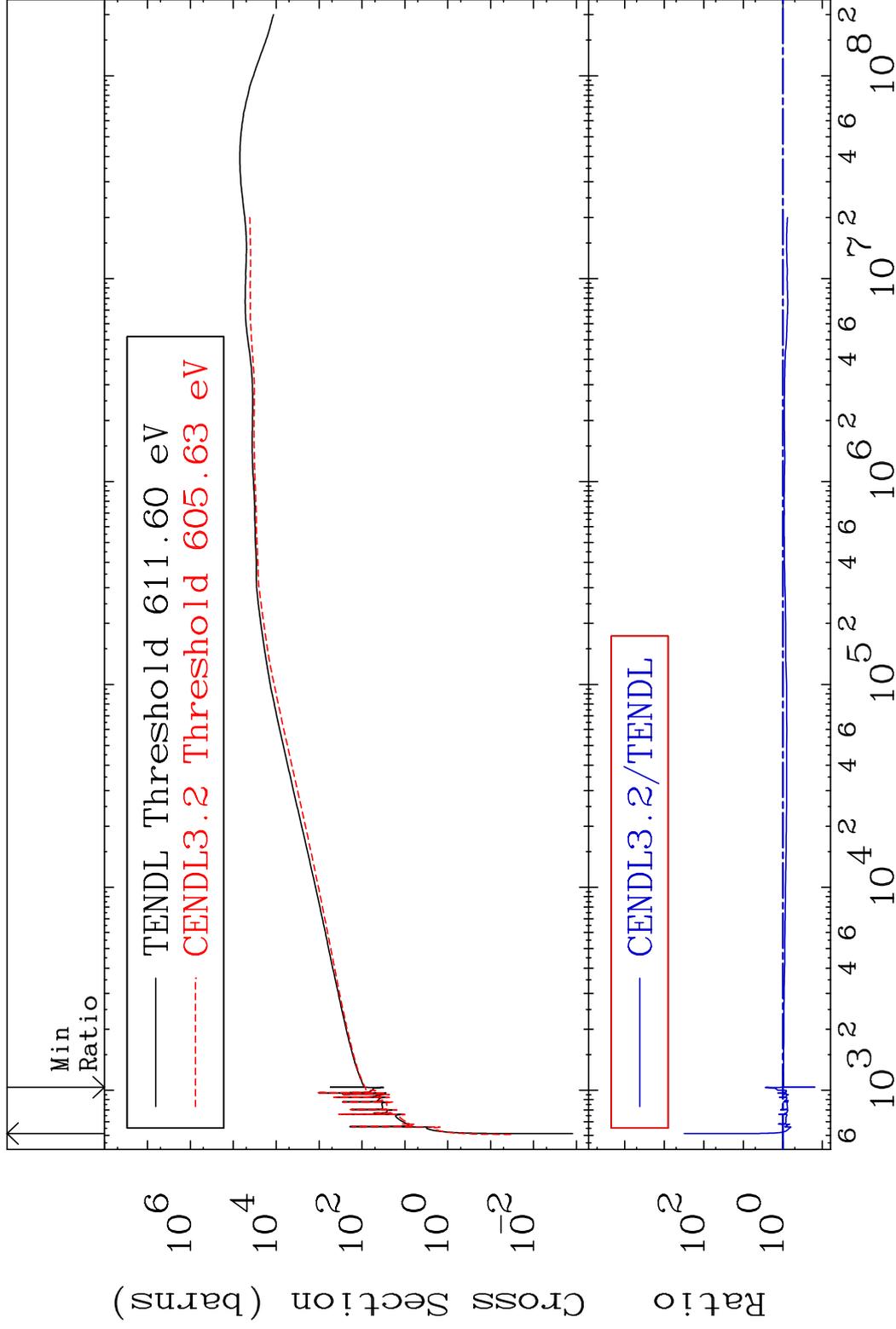


MAT 4440

Dpa elastic (mt2)

44-Ru-101

Cross Section -84.33 To 9999. %

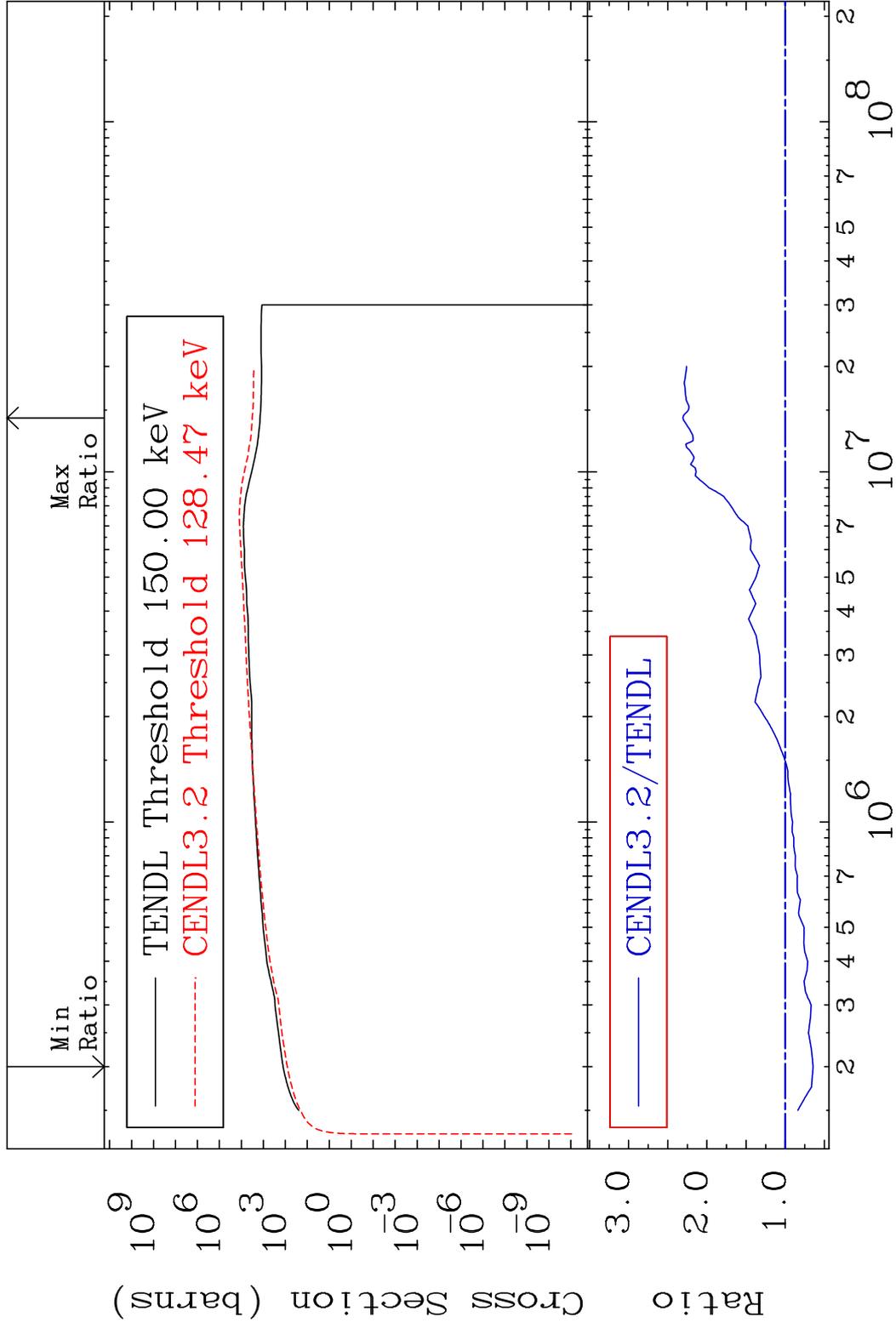


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Incident Energy (eV)

44-Ru-101

MAT 4440 Dpa inelastic (mt51-91) 44-Ru-101
 Cross Section -35.72 To 130.7 %



MAT 4440 Dpa disappearance (mt102 -120) 44-Ru-101
 Cross Section -98.90 To 9999. %

